

GARMIN®

2026 MARINE CATALOG

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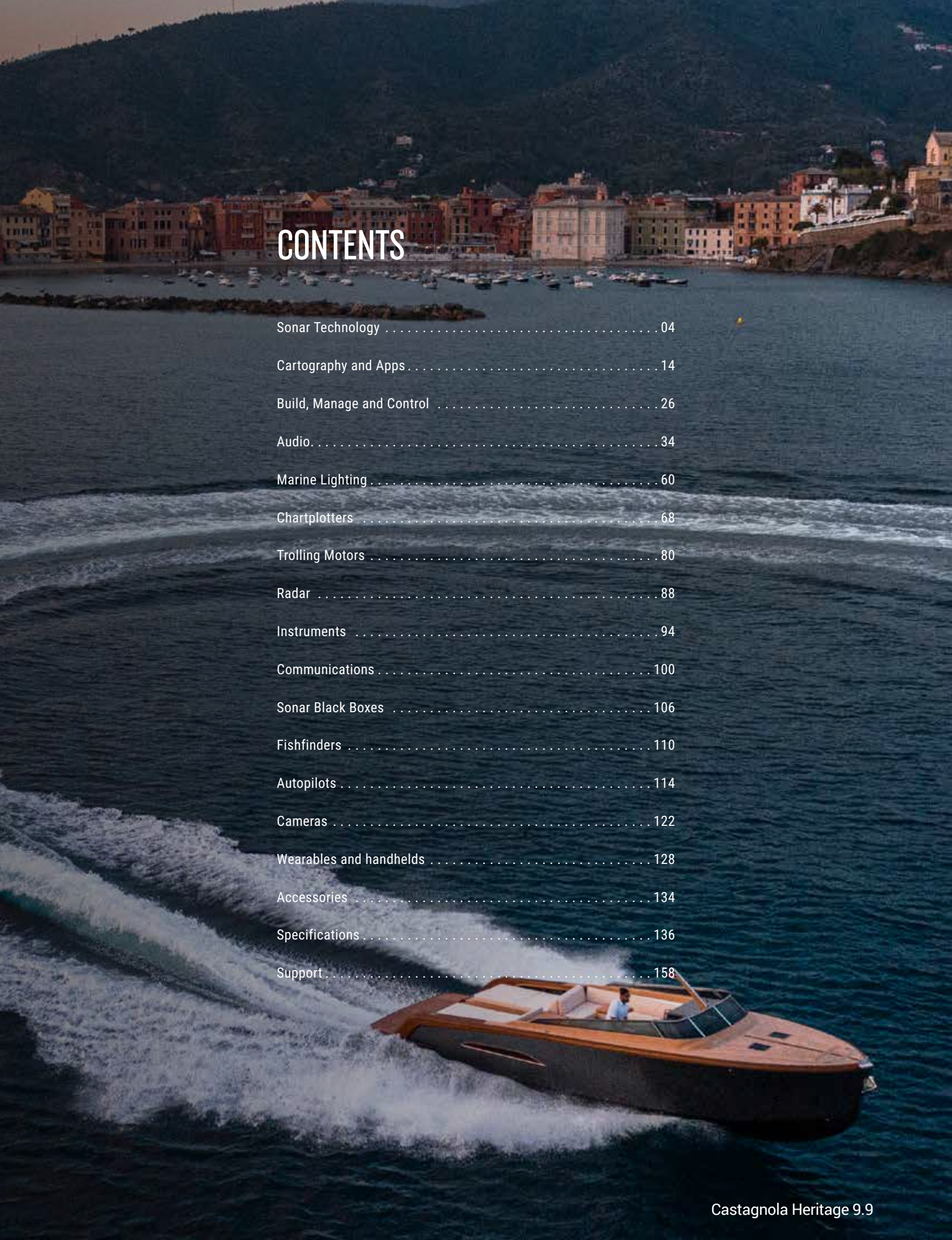
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Castagnola Heritage 9.9


NMEA
2025
Manufacturer
of the Year


2025 EPIC AWARD
WINNER


SEA TOW FOUNDATION
NATIONAL
BOATING
SAFETY
AWARD
2025 WINNER


BoatingIndustry
TOP PRODUCTS
2024


SONAR TECHNOLOGY



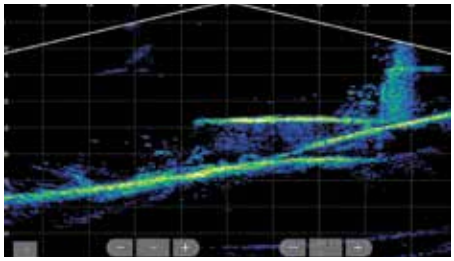
LIVESCOPE PLUS™

The best of the best just got better with the LiveScope Plus System. Offering improved resolution, reduced noise, clearer images and better target separation, it features built-in stabilization to keep the sonar image steady on your compatible chartplotter, even in rough conditions. Now it's easier than ever to see structure, bait and fish swimming around your boat in real time.

Part no: 010-02706-00 Panoptix LiveScope Plus System w/ LVS34 and GLS10

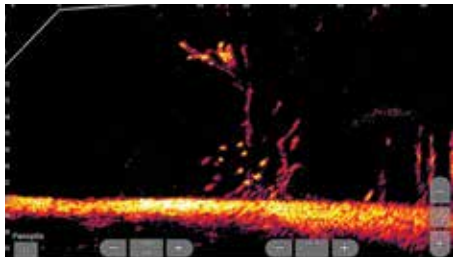
THREE MODES IN ONE TRANSDUCER

LIVESCOPE™ PLUS DOWN MODE



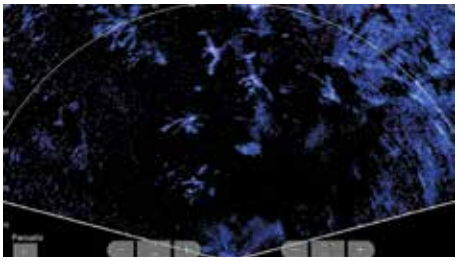
View live, easy-to-interpret scanning sonar images of structure and swimming fish in incredible detail below your boat.

LIVESCOPE™ PLUS FORWARD MODE



Scout ahead of your boat to see what's happening in real time by scanning sonar images of structure and fish up to 200' away.

LIVESCOPE™ PLUS PERSPECTIVE MODE



An ideal sonar mode for shallow water, this mode lets you see under the water with a view from your perspective above the water.

LIVESCOPE PLUS SCANNING SONAR SYSTEM

010-02706-00 Panoptix LiveScope Plus System w/ LVS34 and GLS10



Includes a compact GLS 10 sonar black box with LVS34 transducer and simple plug-and-play Garmin Marine Network connector to install easily and integrate seamlessly with your compatible Garmin chartplotter[1]. With support for Forward, Down and Perspective mode views, now it's easier than ever to see the structure, bait and fish around your boat in real time. Available with Perspective Mode Mount, trolling motor barrel mount and shaft mount options.

LIVESCOPE™ PLUS LVS34 TRANSDUCER

010-02706-10 LiveScope Plus LVS34,Transducer only



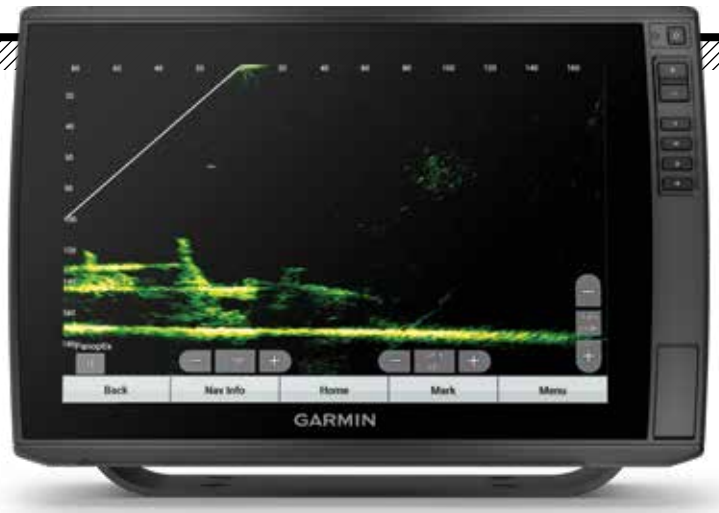
Easily upgrade your current LiveScope system black box (GLS 10 sonar module) with a new LVS34 transducer. Don't miss a thing with supported forward, down and perspective mode views and necessary mount.

[1]Compatible with GPSMAP® 8400/GPSMAP 8600 chartplotter series, GPSMAP® x2 Plus, GPSMAP® x3, ECHOMAP™ Ultra 2 combo, and ECHOMAP UHD2 SV Series

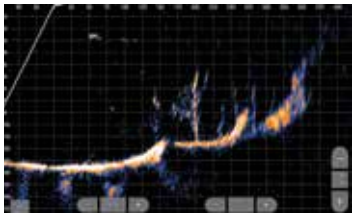
LIVESCOPE™ XR SYSTEM

You didn't think it could get better, but it did with the extended range of the LiveScope™ XR System. It's the latest in LiveScope technology, now for coastal and open-water fishing. The XR transducer offers live scanning sonar up to 350' in saltwater and up to 500' in freshwater in three modes. Adjust the transducer to fit where you fish; use LiveScope™ Forward mode to see around your boat, LiveScope™ Down mode to see directly below your boat and Perspective mode for an overhead sonar view that's perfect for scouting open water or shorelines.

Part no: 010-02719-00 Panoptix LiveScope XR System w/LVS62XR and GLS10

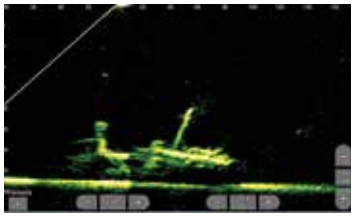


LOOK DEEPER



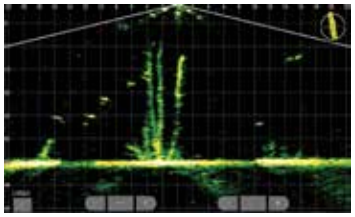
Explore the deep with extended-range, live-scanning sonar depths up to 500' in Freshwater and 350' in Saltwater.

TAKE A CLOSE VIEW



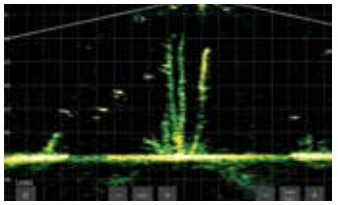
Find fish circling close to your boat. Compress range gives you clear views of waters around your hull.

IMAGE STABILIZATION



A built-in stabilization system keeps the sonar image steady on your compatible chartplotter, even in rough conditions.

VIVID COLOR PALETTES



Choose from seven vivid color options to see fish and structure with maximum contrast and clarity.



LIVESCOPE™ XR LVS62 TRANSDUCER

010-02719-10

Want to optimize your existing LiveScope sonar's GLS™ 10 black box for coastal and open-water fishing? Just add the LVS62 transducer to your setup. Get all the detail and clarity your system is built to deliver.



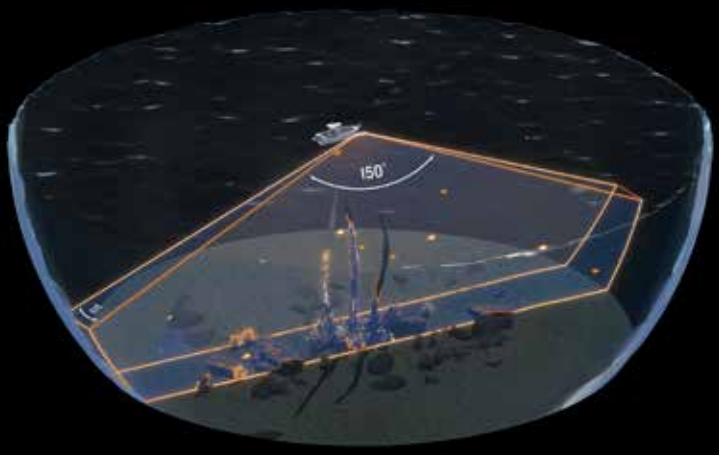
LIVESCOPE™ XR SONAR SYSTEM

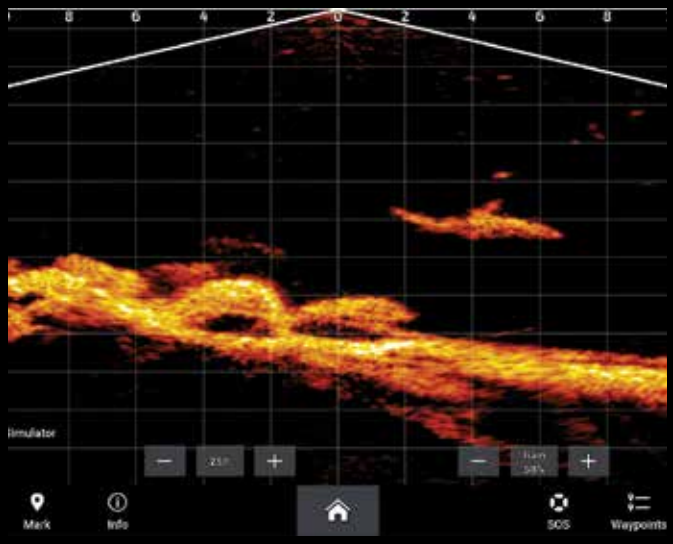
010-02719-00

Includes a compact GLS™ 10 sonar black box with LVS62 transducer and offers easy installation with a plug-and-play Garmin Marine Network connector for seamless integration with your compatible Garmin chartplotter[1]. Now it's easier than ever to see the structure, bait and fish around your boat — in real time — with support for forward, down and perspective mode views.

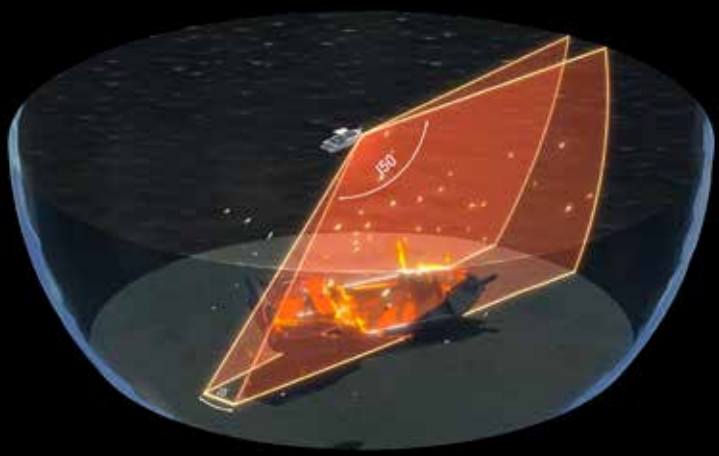


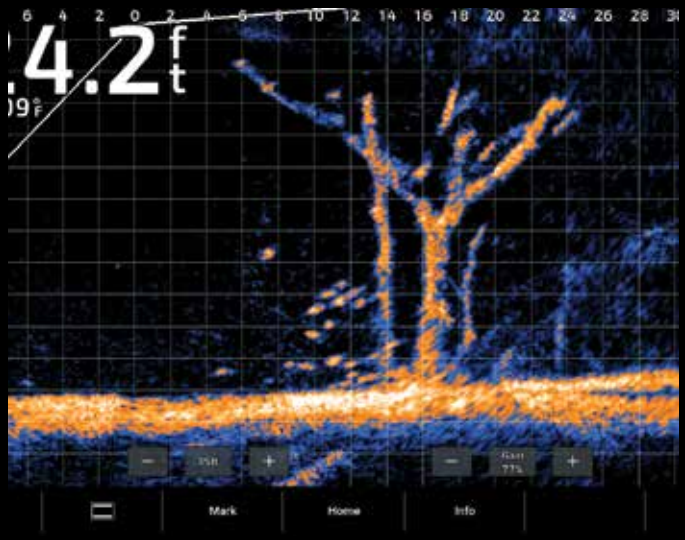
LIVESCOPE™ DOWN



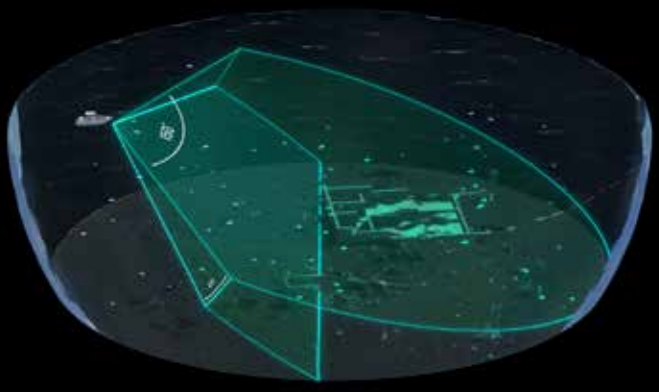


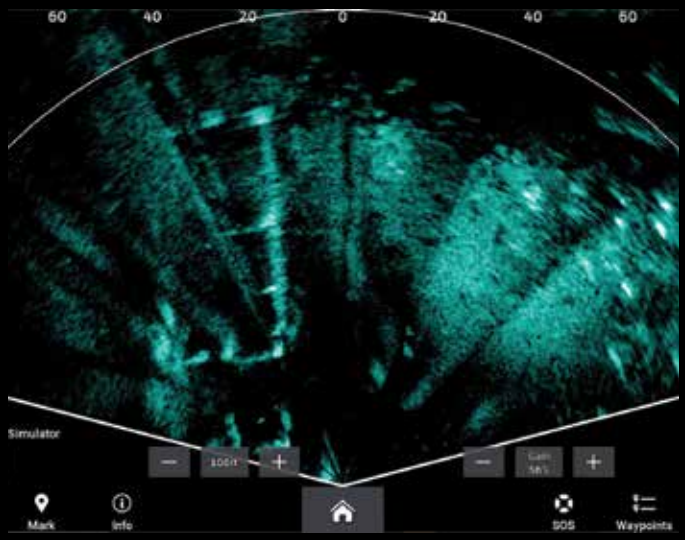
LIVESCOPE™ FORWARD





LIVESCOPE™ PERSPECTIVE MODE





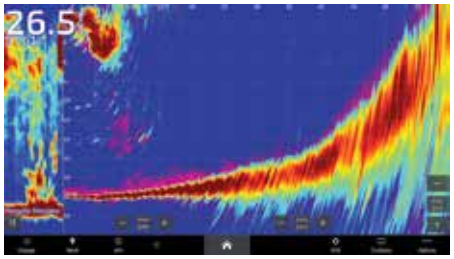
PANOPTIX™ ALL-SEEING SONAR

Panoptix sonar is opening up a new world for serious fishermen. It makes it possible to see fish and bait swimming, in real time, around or under your boat -- even when the boat is not moving.

PANOPTIX FORWARD

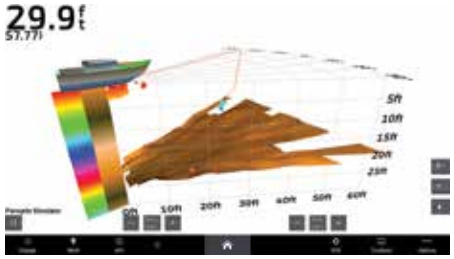
Includes 3 forward views: LiveVü Forward, RealVü 3D Forward and FrontVü[1].

LIVEVÜ FORWARD



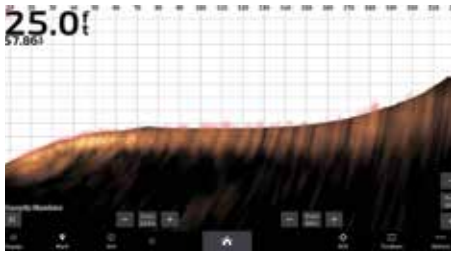
Provides a live sonar look at fish swimming and moving toward or away from the boat. Cast right at fish. See your lure. See fish react to your lure. See and feel the strike.

REALVÜ 3D FORWARD



Scans the area in front of your boat, creating a forward-looking 3D view of the bottom, structure and fish.

FRONTVÜ

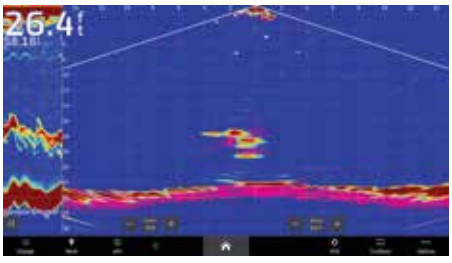


To help give you time to avoid collisions with submerged obstacles, FrontVü shows underwater obstructions within a 300-foot range as you approach them in real time[2].

PANOPTIX DOWN

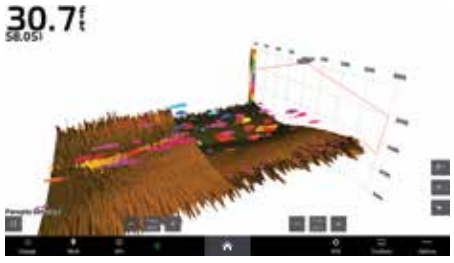
Includes 3 downward views: LiveVü Down, RealVü 3D Historical, and RealVü 3D Down.

LIVEVÜ DOWN



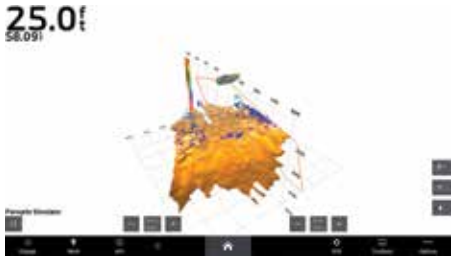
Shows real-time moving sonar images of small baitfish and large target fish swimming below your boat and pinpoints their distance left or right and their depths.

REALVÜ 3D HISTORICAL



Scrolls through sonar data as the boat moves to show the history of the entire water column from the bottom to the surface and all of the fish in between.

REALVÜ 3D DOWN



Scans below the boat -- front to back and side to side – to construct a full 3D view of the area under the boat, letting you see contour changes, fish and structure, even while stationary.

[1]The forward-facing transom mount should be mounted in a location that is out of the water as speeds over 17 knots
If located below the ware line, cruising speeds over 21 Kn should be avoided

[2]The ability to effectively avoid running aground with FrontVü sonar decreases as speed rises above 8 knots

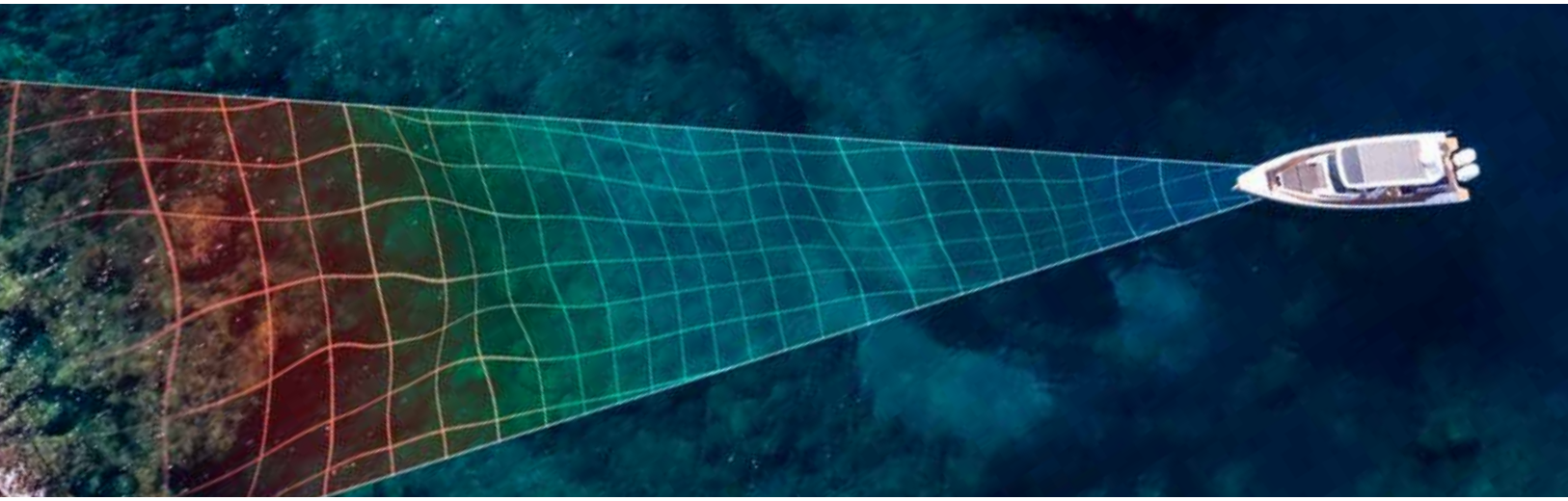
PANOPTIX™ ALL-SEEING SONAR

PANOPTIX FRONTVÜ SONAR

Part no: PS51-TH: 010-01753-00



Multibeam thru-hull transducer with premium FrontVü forward-looking sonar helps you avoid running aground[1] by displaying the bottom ahead of your boat in real time on your chartplotter. It also includes LiveVü Forward sonar to give you the unique ability to see fish — even divers — swimming in real time under and ahead of your boat with a 300-foot forward range.



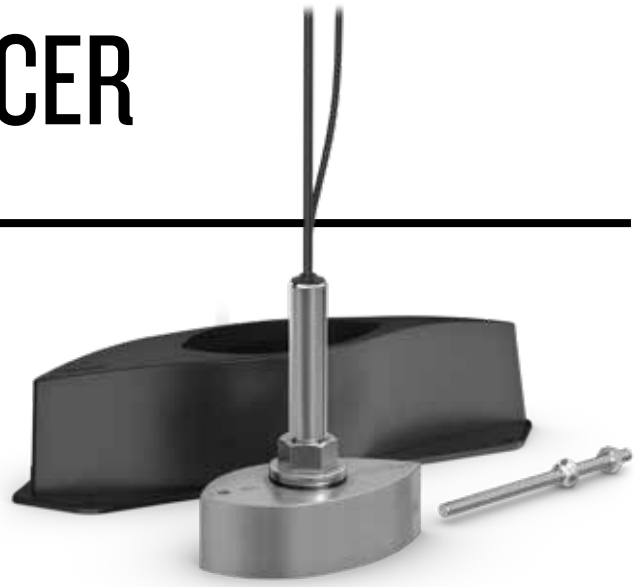
THE LINEUP

	PS22-TR	PS30	PS51-TH	PS70	PS70 -Transducer Only
	010-01945-00	010-01284-00	010-01753-00	010-02768-00	010-02768-10
RealVü™ 3D Down		•			
RealVü™ 3D Historical		•		•	•
LiveVü™ Down	•	•		•	•
RealVü™ 3D Forward					
LiveVü™ Forward	•		•		
FrontVü™ Forward	•		•		
Independent Power Connection	•	•	•	•	•
Transom Mount Included		•			
Trolling Motor Mount Included	•				
Thru-hull Mount and Fairing Block			•	•	

[1] The ability to effectively avoid running aground with FrontVü sonar decreases as speed rises above 8 knots

[2] The forward-facing transom mount should be mounted in a location that is out of the water as speeds over 17 knots. If located below the waterline, cruising speeds over 21 knots should be avoided

PANOPTIX™ PS70 THRU-HULL TRANSDUCER



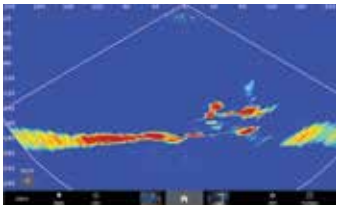
See fish live. Catch fish deep. The Panoptix™ PS70 thru-hull transducer is powered by Garmin RapidReturn™ sonar, which gives you live sonar views up to 1,000' below the surface with 1-kW power output for strong sonar penetration through the water. As the fastest live sonar at 1,000', images update at a rate that's 6-8 times faster than other competitive systems. Locate bait and fish quickly with a wide 120-degree by 8-degree sonar beam that covers huge areas of water.

Part no: 010-02768-00 PS70-TH with fairing block; 010-02768-10 PS70-TH transducer only

FOUR EASY-TO-UNDERSTAND SONAR MODES

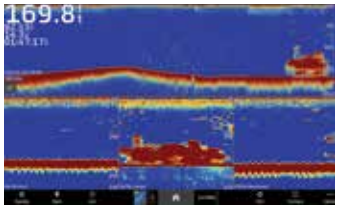
Select the view that works best for your circumstance.

LIVEVÜ™ DOWN



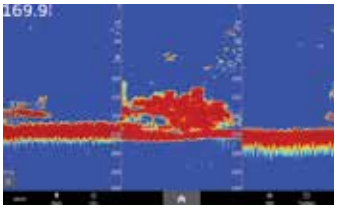
See real-time live sonar images up to 1,000'. With RapidReturn, anglers can see small baitfish and target game fish in real time.

TRADITIONAL SONAR



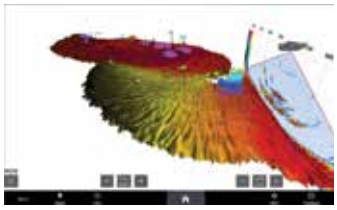
View crisp, clear fish arches with excellent separation of targets under the boat.

TRIPLE BEAM SONAR



Get a three-way traditional sonar split that gives sonar returns from the port and starboard directions, as well as targets directly under the boat, in an easy-to-understand traditional sonar view. Adjust the beam angles to fine-tune your 3 columns of sonar data.

REALVÜ™ 3D



Historical scanning technology helps find fish and build a map of the ocean floor while your boat is moving. It shows the entire water column you have passed over in 3D, from the bottom to the surface and all fish in between.

QUICKDRAW CONTOURS

Survey the ocean floor in great detail. New QuickDraw Contours improvements allow you to survey wide areas at depths up to 1,000' — and instantly create personalized fishing maps on-screen with 1' contours as you fish.



SCANNING SONAR SYSTEM

ULTRA HIGH-DEFINITION

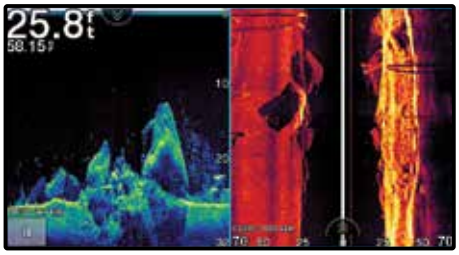


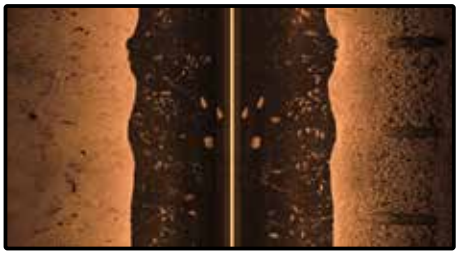
The Ultra High-Definition Scanning Sonar redefines scanning sonar. See everything below and off to the sides of your boat in amazingly sharp, crisp detail. The UHD transducers provides image details so clear and precise, you can actually see fish hanging just off branches of submerged trees, brush and rocks. You can see size differences between bigger and smaller fish and even see individual fish swimming in bait balls.

Share Ultra High- Definition scanning sonar images seamlessly across multiple networked chartplotters[1]. You can also add optional Panoptix all-seeing sonar to your networked sonars.

SEE EVERYTHING

Clarity and detail are redefined with the Ultra High-Definition scanning sonar system. It delivers greater resolution by putting more power on targets with a higher frequency range than conventional marine sonar technologies.

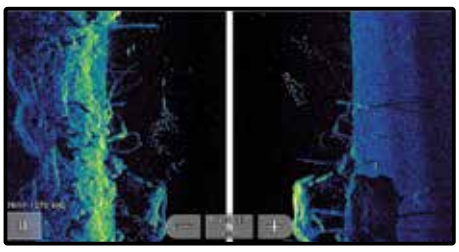


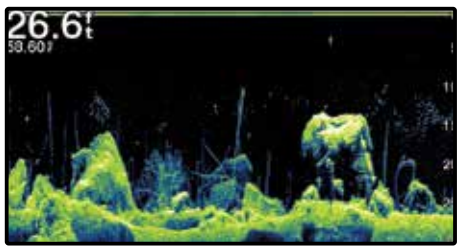


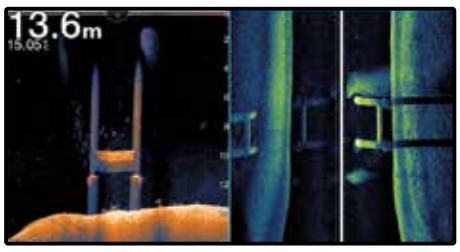


VIVID COLOR PALETTE

See fish and structure in colorful detail with vivid color palettes. See fish and structure in colorful detail with scanning sonar.



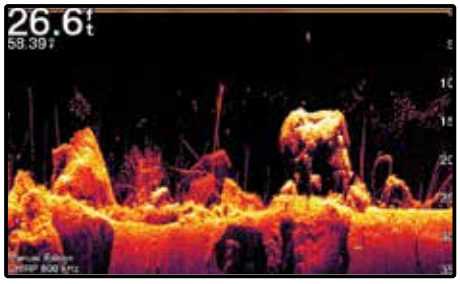


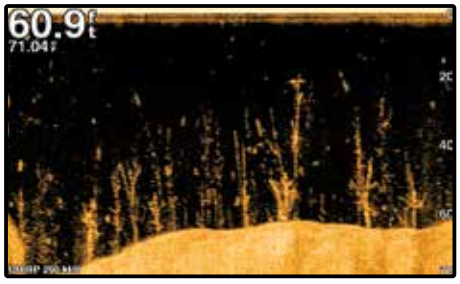


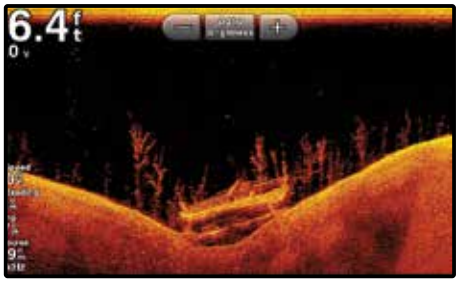
[1]For use with ECHOMAP™ Ultra, ECHOMAP UHD2 SV series, GPSMAP® 8400xsv and GPSMAP® 723/923/1223xsv and chartplotter/sonar combo

UHD CLEARVÜ

ClearVü with CHIRP technology is high-frequency sonar that delivers an amazingly clear picture of what's under your boat. ClearVü produces an ultra-clear image for a more detailed representation of objects, structure and fish.

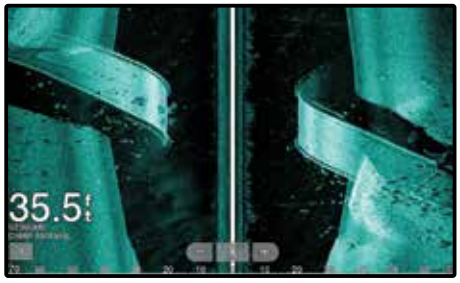


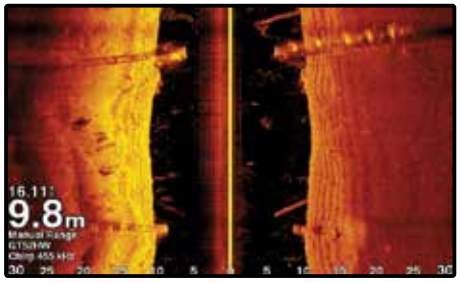


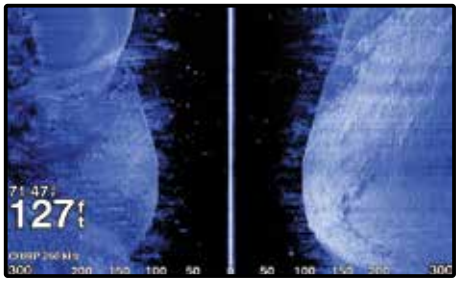


UHD SIDEVÜ

SideVü with CHIRP technology provides a highly detailed, high-resolution image of structure and fish off to either side of your boat. It's excellent for scouting, finding fish and the right types of structures for successful fishing.

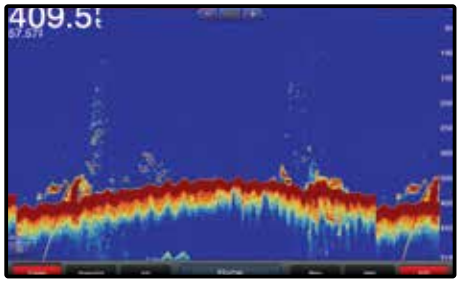


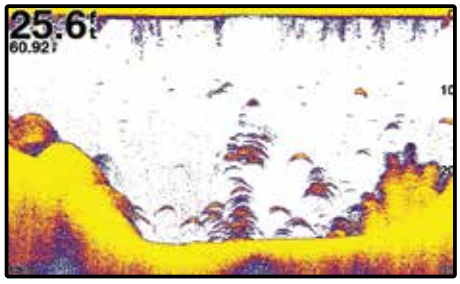


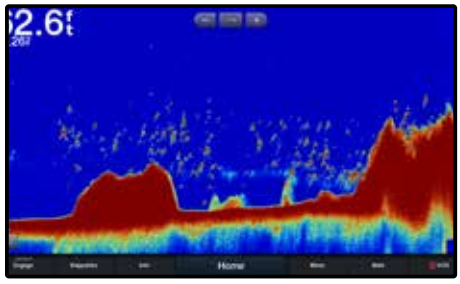


TRADITIONAL CHIRP SONAR

Garmin CHIRP traditional sonar sends a continuous sweep of frequencies ranging from low to high. This sweep of frequencies provides a wide range of data to create an amazingly clear, high resolution image.







CARTOGRAPHY AND APPS



THE BEST OF GARMIN WITH THE BEST OF NAVIONICS®

Whether you're adventuring on the high seas, cruising an intercoastal waterway, fishing on your new favorite freshwater lake, or piloting a commercial workboat, your chartplotter deserves the best, most up-to-date cartography and navigation data available. That's the advantage you get with the detail-rich Garmin and Navionics content in our full line of marine mapping solutions. With selectable chart layers, overlays and more, our products help mariners all over the world guide their boats in and out of port with confidence. Map coverage areas are aligned across standard and premium cartography for all Garmin and Navionics branded products — with combined coastal and lake content, making it simple to access the map areas you want. See all the best places that water can take you. And plot your course with the world's No. 1 choice in marine mapping.

[1]Based on 2024 reported sales
See current Garmin/Navionics cartography catalog for coverage areas and pricing.

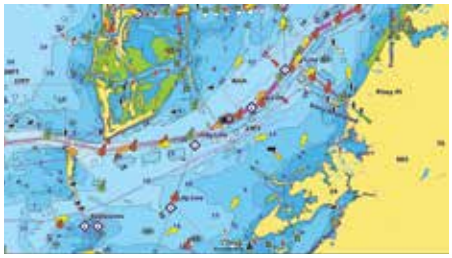
GARMIN NAVIONICS+™ CHARTS

Worlwide coverage available

INTEGRATED MAPPING FOR GARMIN CHARTPLOTTERS

Navigate with greater peace of mind and increased awareness on the water. Garmin Navionics+ marine charts — with integrated Garmin and Navionics content — brings a vibrant color palette and popular Navionics-style chart formatting to your chartplotter[1]. For offshore or inland waters, this all-in-one solution offers detail-rich mapping of coastal features, lakes, rivers and more — with shaded depth contours and access to daily updates via the ActiveCaptain® app. Advanced Auto Guidance+ technology[2] offers a suggested dock-to-dock path to your destination. And multiple shading options aid in shallow water navigation and make it easy to select depth ranges for the best fishing spots.

ADVANCED CHART DETAIL



Integrated Garmin and Navionics content, with an updated color palette and Navionics style appearance, offers exceptional coverage, clarity and detail on your chartplotter.

DETAILED CONTOURS



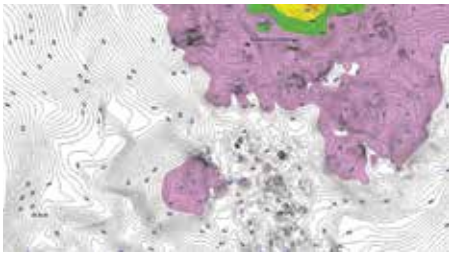
Up to 1' contours provide a more accurate depiction of bottom structure, so you can catch more fish and navigate with confidence.

AUTO GUIDANCE+



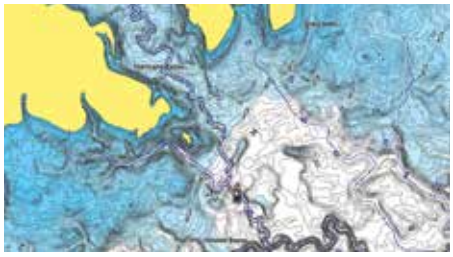
Built-in Auto Guidance+ technology[1] uses your desired depth and overhead clearance, along with chart data and frequently traveled routes, to calculate a suggested path to follow from dock to dock. This results in smoother, more detailed routes, and it now calculates even faster.

DEPTH RANGE SHADING



Select high-resolution depth range shading for up to 10 depth ranges to view your target depth at a glance.

SHALLOW WATER SHADING



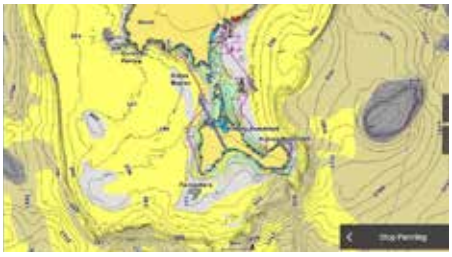
Shallow water shading for a user-defined depth gives a clearer picture of shallow waters to avoid when navigating.

NIGHT MODE



Get a better view of important navigation features at night with improved contrast and a muted color palette that reduces eye strain after dark.

SEABED AREAS



With seabed areas, the colours displayed on the screen identify the general density and nature of the seaflooR. This feature helps the boater clearly identify the type of seabed and make informed decisions regarding their navigation.

[1]Garmin Navionics+ and Garmin Navionics Vision+ are designed for use on compatible Garmin devices only. Other brands may utilize Navionics+ or Platinum+ cartography. • [2]Auto Guidance+ is for planning purposes only and does not replace safe navigation operations.

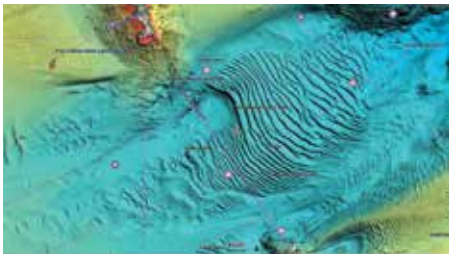
GARMIN NAVIONICS VISION+™ CHARTS

Worlwide coverage available

PREMIUM MAPPING FOR GARMIN CHARTPLOTTERS

Our premium cartography solution for Garmin devices adds even more graphical content and visual dimension to the standard Garmin Navionics+ feature set. Covering offshore and inland waters, this all-in-one mapping package lets you navigate seamlessly with such additional onscreen aids as high-resolution relief shading, 3-D perspective views, and overhead visual reference from aerial photography and satellite imagery. Enhancing your situational awareness, these extra features help you navigate unfamiliar waters, marinas, shorelines, ports and more with confidence.

RELIEF SHADING



Highly detailed shading that combines color and shadow to provide an easy-to-interpret, clearer view of bottom structure than contour lines alone.

HIGH-RESOLUTION SATELLITE IMAGERY



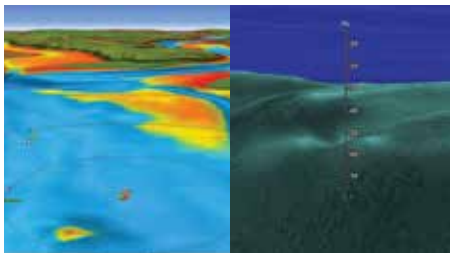
High-resolution satellite imagery overlaid with navigational charts gives you a realistic view of your surroundings — ideal for entering unfamiliar harbors or ports.

AERIAL PHOTOS



Aerial and surface photography of ports, bridges, docks, navigational landmarks and more provides a better sense of your surroundings above the waterline.

3D VIEWS



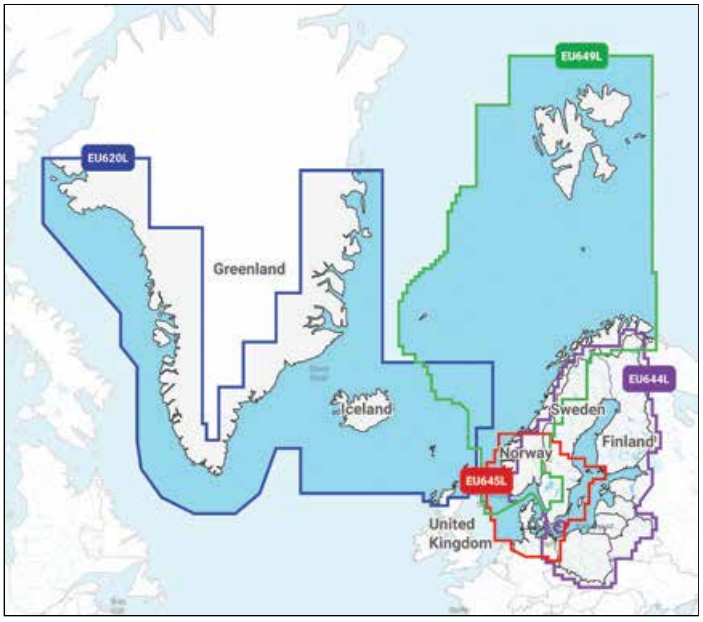
MarinerEye and FishEye views provide 3-D representations of the surrounding area above and below the waterline.

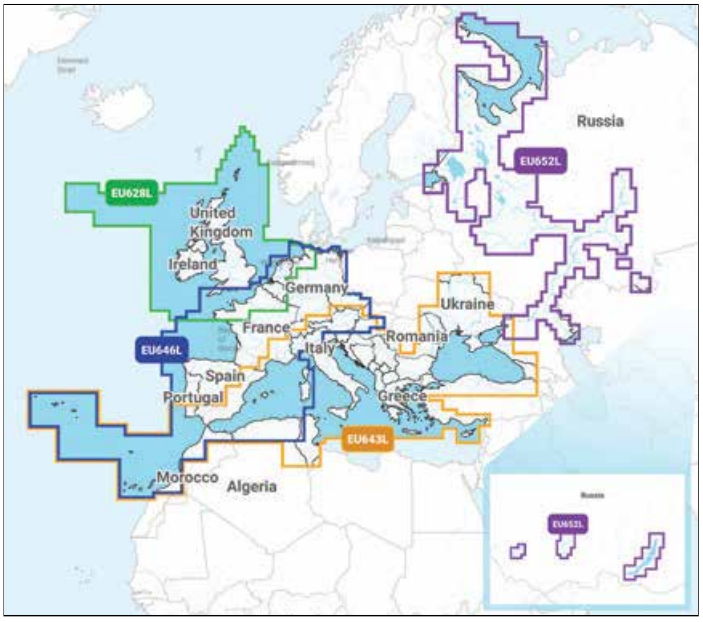
GARMIN NAVIONICS+™ & GARMIN NAVIONICS VISION+™

LARGE COVER AREAS

Region Code	Coverage	Garmin Navionics+	Garmin Navionics Vision+
EU628L	U.K., Ireland & Holland	NSEU628L	NVEU628L
EU643L	Mediterranean & Black Sea	NSEU643L	NVEU643L
EU646L	Europe, Central & West	NSEU646L	NVEU646L
EU652L	Russia, West	NSEU652L	NVEU652L
EU620L	Greenland & Iceland	NSEU620L	NVEU620L
EU644L	Baltic Sea	NSEU644L	NVEU644L
EU645L	Skagerrak & Kattegat	NSEU645L	NVEU645L
EU649L	Norway	NSEU649L	NVEU649L

For more information and world wide coverages, please visit www.garmin.com



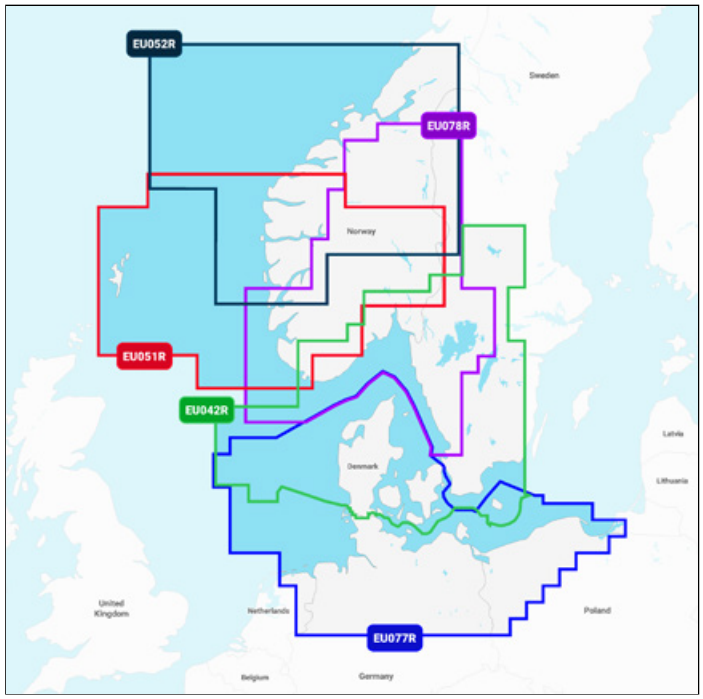


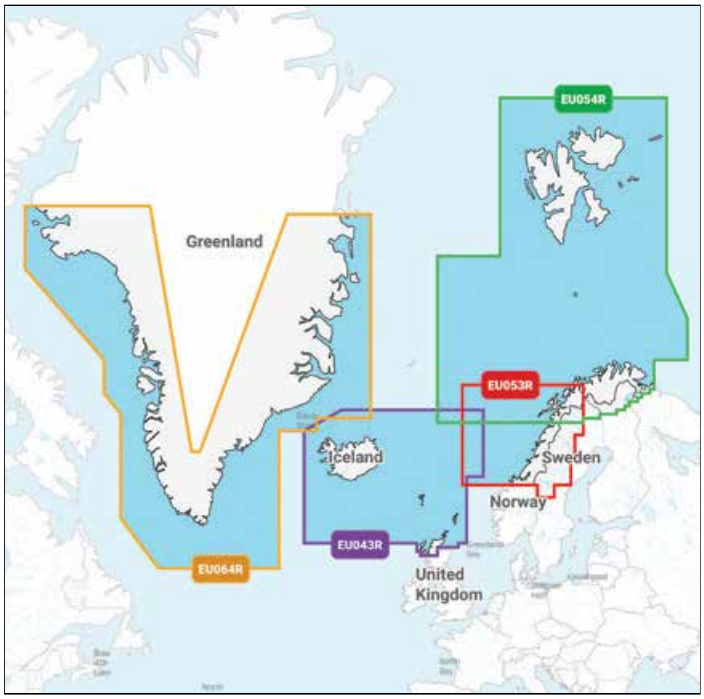
REGULAR COVER AREAS

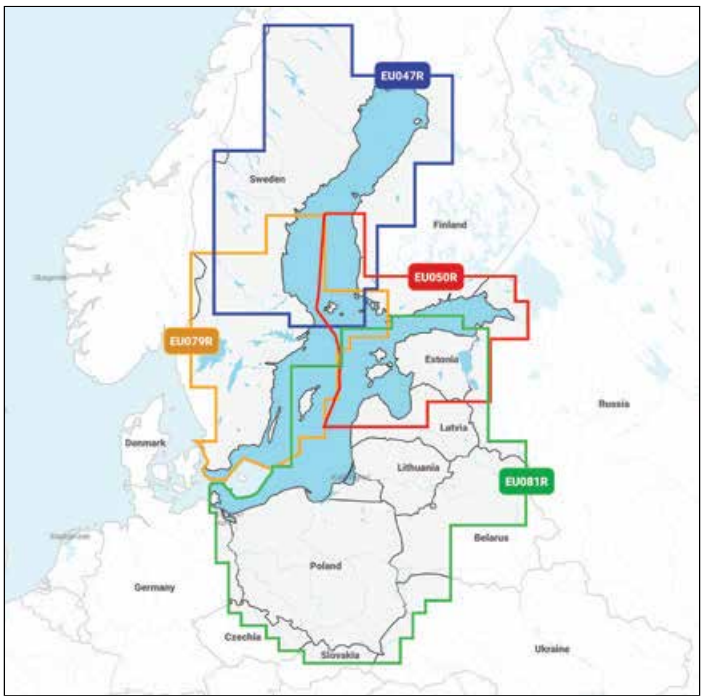
Region Code	Coverage	Garmin Navionics+	Garmin Navionics Vision+
EU042R	Oslo to Trelleborg	NSEU042R	NVEU042R
EU051R	Norway, Lista to Sognefjord	NSEU051R	NVEU051R
EU052R	Norway, Sognefjord - Svefjorden	NSEU052R	NVEU052R
EU077R	Denmark & Germany, North	NSEU077R	NVEU077R
EU078R	Oslo, Skagerrak & Haugesund	NSEU078R	NVEU078R
EU043R	Iceland to Orkney	NSEU043R	NVEU043R
EU053R	Norway, Trondheim to Tromso	NSEU053R	NVEU053R
EU054R	Norway, Vestfjorden to Svalbard	NSEU054R	NVEU054R
EU064R	Greenland	NSEU064R	NVEU064R
EU047R	Gulf of Bothnia	NSEU047R	NVEU047R
EU050R	Gulf of Finland & Riga	NSEU050R	NVEU050R
EU079R	Sweden, Southeast	NSEU079R	NVEU079R
EU081R	Baltic Sea, East Coast	NSEU081R	NVEU081R
EU055R	Finland, Lakes & Rivers	NSEU055R	NVEU055R
EU067R	Sweden, Lakes & Rivers	NSEU067R	NVEU067R
EU071R	Norway, Lakes & Rivers	NSEU071R	NVEU071R

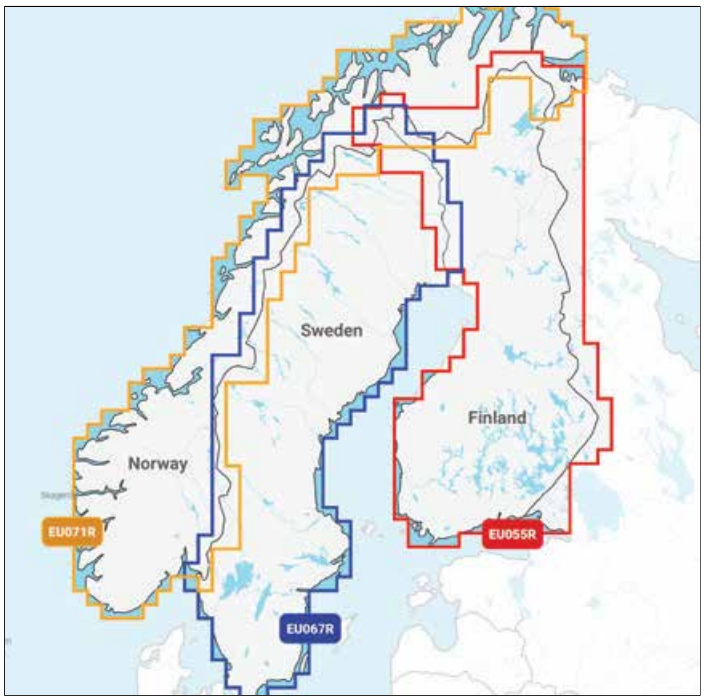
For more information and world wide coverages, please visit www.garmin.com

GARMIN NAVIONICS+™ & GARMIN NAVIONICS VISION+™









NAVIONICS®+ CHARTS

NAVIONICS A Garmin Brand

Worldwide coverage available

INTEGRATED CHARTS AND MAPS FOR A WIDE RANGE OF THIRD-PARTY CHARTPLOTTERS

It's all about knowing your way on the water — with cartography you can trust. That's why the boaters who trust and rely on the Navionics brand have made it the world's No. 1 marine mapping provider[1]. Seamlessly combining offshore and inland content, this all-in-one solution offers clear, reliable cartography for the widest range of chartplotter brands. Navionics+ and Platinum+ cartography is available on microSD™ cards for easy installation on your compatible marine device. The same detailed marine and lake charts are also available with the Navionics Boating app on your compatible Apple® or Android™ mobile device. Simply download the app and purchase your charts of choice to access top-of-the-line maps right from your phone.

SAVE WITH MARINE CHART SUBSCRIPTIONS

An included one-year subscription with your chart purchase provides access to daily updates, advanced features and so much more. At the end of your yearly subscription period, you can renew for additional one-year periods — at a price that's typically 50% less than the cost of a new GPS card[2]. Activate your subscription with the Navionics chart installer software or by using the Plotter Sync feature of the Navionics Boating app to activate and update charts wirelessly[3].

NAVIONICS+

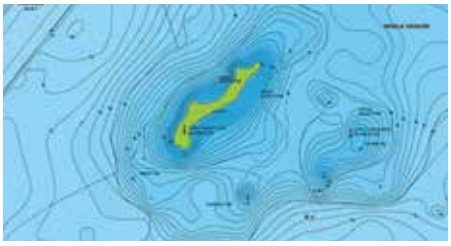
For offshore or inland waters, this all-in-one solution offers detail-rich integrated mapping, up to 1' (0.5 meter) HD contours, advanced features[2] such as dock-to-dock route guidance technology[2] and access to daily updates via the Navionics Chart Installer software.

NAUTICAL CHART



Essential cartographic reference detail for cruising, sailing and fishing: port plans, safety depth contours, marine services, tides and currents, and navigation aids.

SONARCHART™ HD BATHYMETRY



For improved fishing and navigation, SonarChart™ HD bathymetry maps display up to 1' (0.5 meter) contours for a more detailed depiction of bottom structure.

COMMUNITY EDITS



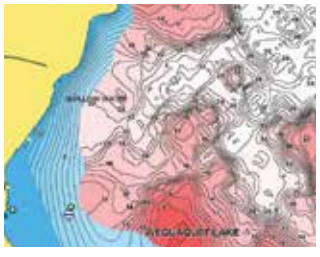
Download the Community Edits content layer to any Navionics card and view this valuable local information, contributed by Navionics Boating app users, on your compatible chartplotter.

DOCK-TO-DOCK ROUTE GUIDANCE



Navionics advanced route guidance technology[3] uses your boat settings, along with chart data and frequently traveled routes, to calculate a suggested path to follow from dock to dock.

SONARCHART LIVE MAPPING FEATURE



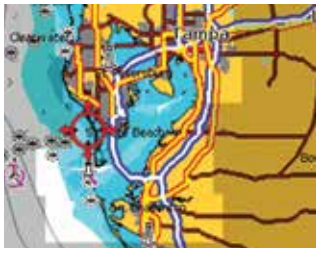
Create your own maps on the fly. Watch new up to 1' (0.5 meter) HD bathymetry maps develop in real time as your boat moves along the water.

ADVANCED MAP OPTIONS



Change the way you view Navionics charts and focus on the details that matter most to you. Highlight shallow areas, adjust contour density or select a fishing range.

PLOTTER SYNC



Transfer routes and markers, update charts and more between your plotter card and mobile app — wirelessly. You can even activate or renew your card's subscription and upload sonar logs.

NOTE: Navionics+ and Platinum+ cards are not compatible with Garmin chartplotters • [1]Based on 2021 sales • [2]Compatibility with Navionics advanced features varies depending on the chartplotter model • [3]Route guidance is for planning purposes only and does not replace safe navigation operations • Apple is a trademark of Apple Inc., registered in the U.S. and other countries. • Android is a trademark of Google LLC.

PLATINUM+ CHARTS

NAVIONICS
A Garmin Brand

PLATINUM+ OVERLAYS AND FEATURES

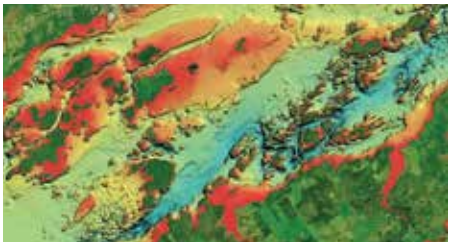
Designed with the most demanding boaters and serious anglers in mind, all the marine content of Navionics+ is enhanced with additional viewing options that take your boating experience to the next level.

PLATINUM+

INTEGRATED COASTAL AND INLAND LAKES COVERAGE

A comprehensive, all-in-one map solution, Platinum+ cartography combines premium marine content on oceans, major rivers and seas with freshwater inland mapping for more than 44,000 lakes worldwide.

RELIEF SHADING



The relief shading feature brings bottom detail to life, from shallow flats to deep offshore canyons, in a vivid, colorful representation that helps boaters gain a better understanding of bottom topography.

SATELLITE IMAGERY WITH SONARCHART™ SHADING OVERLAY



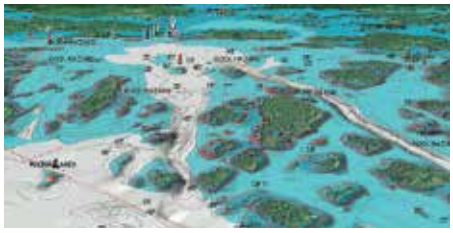
Created from SonarChart 1' contour data, varying shades of blue reveal changes in depth such as channels and drop-offs to improve situational awareness and give clear, visual cues to fish-holding structure.

AERIAL PHOTOS



Aerial and surface photography of ports, marinas, bridges, docks, boat ramps, dams and navigational landmarks offers superior situational awareness.

3D VIEW



Unique 3D views provide additional perspective, both above and below the water.



NAVIONICS® BOATING APP

NAVIONICS
A Garmin Brand



For cruising, fishing, sailing, diving and all your other activities on the water, the Navionics Boating app brings detailed offshore marine and inland lake charts to your compatible mobile device so they're on hand wherever you go. As a companion to the chartplotter or on its own, the app delivers detailed chart content, relief shading overlays, night mode for easier map viewing after dark and more in a convenient and easy-to-use format.

In addition to all the great chart content, your one-year renewable subscription lets you access daily updates and powerful advanced features before, during and after your trip.

SPECIAL NAVIONICS BOATING APP FEATURES

Relief shading overlays use color and shadow to provide boat owners with a better understanding of bottom topography for improved fishing and diving

Auto Guidance+ technology uses your desired depth and overhead clearance, along with chart data and navigation aids, to give you a suggested dock-to-dock path to follow[1]

The Plotter Sync feature allows compatible chartplotter owners to transfer routes and markers, update chart layers and more — to and from the Boating app

A night mode display option optimizes viewing in low-light conditions and helps preserve your night vision

The Connections feature keeps you in touch with your friends and fellow boaters; and allows you to share your live location and tracks, routes and markers

Local edits from Boating app users and the ActiveCaptain® Community are integrated within the app

SonarChart™ Live mapping feature lets you create your own 1'/0.5 meter contour HD bathymetry maps in real time while navigating

Access real-time weather data, daily and hourly forecasts, as well as wind, weather buoys, tides and currents overlaid on your map

The Boating app is available as a separate purchase for Apple® and Android™ devices and offers a free trial before subscribing



Apple is a trademark of Apple Inc., registered in the U.S. and other countries. • Android is a trademark of Google LLC.

[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations. Not all map features will display on all devices, particularly legacy devices. As engineering enhancements are ongoing, new features may not display on such legacy products.

ACTIVECAPTAIN® APP



Give yourself the advantages of the ultimate connected boating experience. Download the free all-in-one ActiveCaptain app. It provides a powerful connection to your Garmin chartplotter, charts, maps and the community. Wherever you are, you can have convenient access to your marine mapping — including a night mode map view that's optimized for low light — activate chart subscriptions, purchase and update maps and charts, plan your trips and access the Garmin Quickdraw™ Contours Community.



SPECIAL ACTIVECAPTAIN FEATURES

Use the built-in OneChart™ feature on the ActiveCaptain app to access and wirelessly update your charts from your mobile phone directly to your chartplotter

Receive smart notifications, such as calls and texts, on your chartplotter display when paired with the app

Download software updates and notifications from the app directly to your Garmin devices

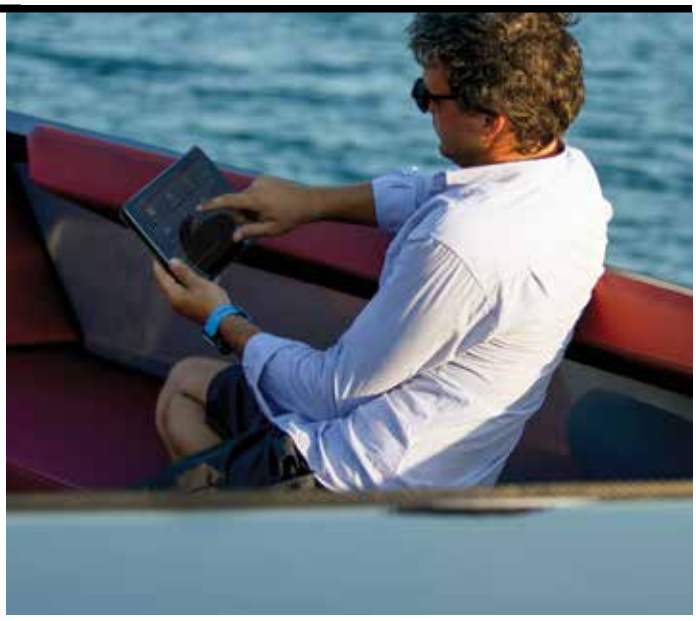
Connect to fellow boaters with the ActiveCaptain community for up-to-date feedback on marinas and other points of interest

Make, save and transfer routes and waypoints between the app and chartplotter — with zero button presses[1]

Easily upload and download the latest Garmin Quickdraw™ Contours content from the community

View and control your chartplotter from your smartphone or tablet[2]

Use with the OnDeck™ remote connectivity system to track, monitor and control up to 5 switches on your boat from virtually anywhere



[1]Zero button presses applies to GPSMAP® chartplotters
[2]Helm only available on compatible GPSMAP units.



BLUECHART® CHARTS

Worldwide coverage available NAVIONICS A Garmin Brand

BLUECHART® G3

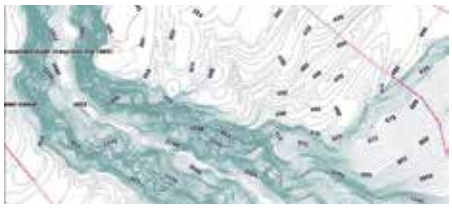
BlueChart g3 coastal charts provide coverage, clarity and detail with integrated Garmin and Navionics content. The charts also display suggested routes with Auto Guidance[1].

ADVANCED CHART DETAIL



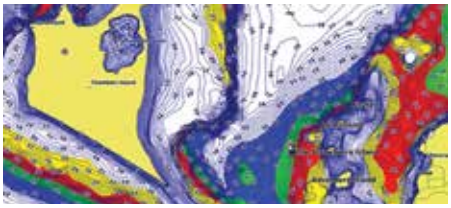
Highly detailed charts with Navionics data help mariners guide their boats in and out of port with confidence.

DETAILED CONTOURS



Up to 1' contours provide a more accurate depiction of bottom structure for improved fishing charts and enhanced detail in swamps, canals and port plans.

DEPTH RANGE SHADING



Select depth range shading for up to 10 depth ranges to view your target depth at a glance.

AUTO GUIDANCE

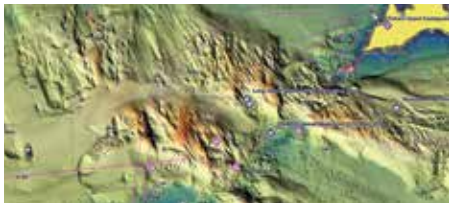


Auto Guidance[1] technology calculates a suggested route to your destination.

BLUECHART® G3 VISION

BlueChart g3 Vision includes all the reliability, functionality and integrated Garmin and Navionics® content of BlueChart g3 while adding even features such as relief shading to help you along your journeys.

RELIEF SHADING



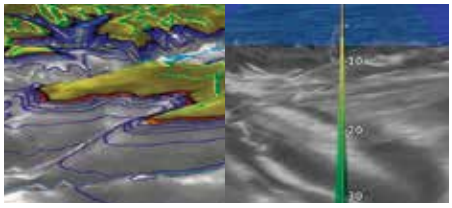
Highly detailed shading combines color and shadow to provide an easy-to-interpret, clearer view of bottom structure than contour lines alone.

AERIAL PHOTOGRAPHY



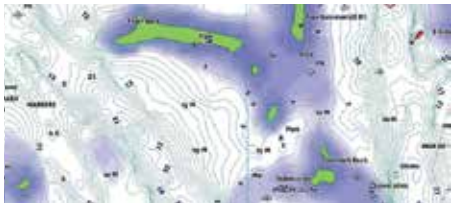
Pictures show exceptional detail of many ports, harbors and marinas. This is ideal when entering unfamiliar areas.

3D VIEWS



MarinerEye and FishEye views provide 3D representations of the surrounding area above and below the waterline.

SHALLOW WATER SHADING



Shallow water shading for a user-defined depth gives a clear picture of shallow waters to avoid.

HIGH-RESOLUTION SATELLITE IMAGERY



High-resolution satellite imagery overlaid onto navigational charts provides a realistic view of your surroundings.

[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations. Not all chart features will display on all devices, particularly legacy devices. As engineering enhancements are ongoing, new features may not display on such legacy products.

BUILD, MANAGE AND CONTROL



BUILD A COMPLETE ONBOARD SYSTEM

The Garmin Marine Network and NMEA 2000® network allow you to easily view multiple functions, such as chartplotter, radar, sonar, AIS, on one or more displays. All Garmin Marine Network and NMEA 2000 devices come with an easy plug-and-play setup. The system automatically detects the devices in the network and makes them ready to use.

NMEA 2000 CONNECTIVITY

Utilize NMEA 2000 to connect FUSION-Link™ enabled audio systems, AIS, VHF, autopilots, engine data, fuel flow sensors and wind sensors.

GARMIN MARINE NETWORK

Utilize Garmin Marine Network to connect Garmin marine electronics such as sonar, radar, monitoring cameras, video data, and multiple MFDs and chartplotters.

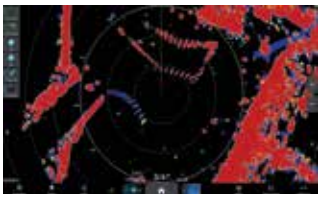
WEATHER



CAMERA



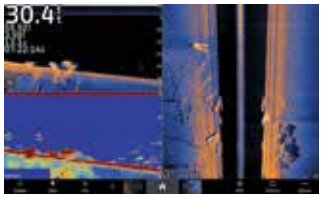
RADAR



FUSION AUDIO



SONAR



AUTOPILOT



ENGINE DATA



WIND SENSOR



CONTROL. EVERYTHING.

ONEHELM™

Our integrated solution is designed to work with marine products manufactured by third-party companies to bring you the power and convenience of controlling onboard boat systems such as digital switching, lighting, stabilization and more. It's all in one simple, convenient control center — the screen of your Garmin MFD.



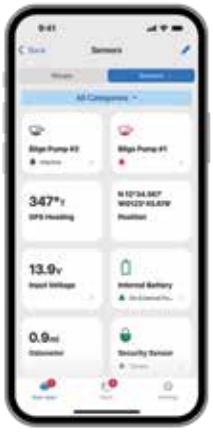






ONDECK™ SYSTEM

Keep tabs on systems such as battery, shore power, bilge or saltwater pumps and receive alerts if a security sensor is triggered or if your boat is moved from its GPS geofenced area. Get 24/7 peace of mind with OnDeck technology onboard[1].



GARMIN EMPIRBUS™ DIGITAL INTEGRATIONS

These innovative and intelligent products, solutions and services provide a complete suite of embedded systems, power supply and power distribution, creating the backbone for complete digital control and smart boat features. EmpirBus components connected with Garmin MFDs allow cruisers, sailors and anglers to easily control virtually any device on their vessel – from propulsion to pumps, air conditioning to infotainment. This connectivity enhances situational awareness and helps make time on the water even more enjoyable.





[1]An active subscription plan is required. Both the OnDeck Hub and user's device must have connectivity to 3G/4G network.

REMOTE CONNECTIVITY SOLUTIONS

ONDECK™ SYSTEM

Part no: 010-02134-00

When paired with the ActiveCaptain® app on your smartphone, the OnDeck remote connectivity solution lets you track, monitor and control multiple switches on your boat from virtually anywhere. Keep tabs on systems such as battery, shore power, bilge or saltwater pumps and receive alerts if a security sensor is triggered or if your boat is moved from its GPS geo-fenced area. Get 24/7 peace of mind with OnDeck technology onboard[1].

TRACK



Be the first to know if a security sensor has been triggered, or if your boat has been moved. The internal GPS sensor updates every 15 or 30 minutes, depending on power status, and will send text alerts[1] if your boat leaves the geofenced area.

MONITOR



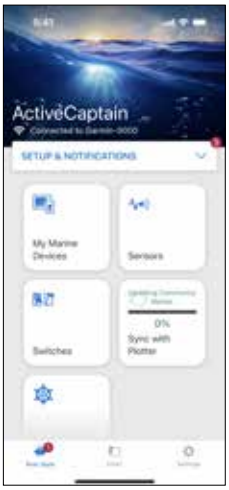
Get updates[1] on your boat's battery status, bilge activity, shore power, temperature changes and more. Set up alarm notifications in the ActiveCaptain® app.

CONTROL



Control any number of NMEA 2000 latching or momentary switches, including battery chargers, ice makers and more.

ACTIVECAPTAIN APP



Download the ActiveCaptain app to your compatible smartphone or tablet to manage your vessel. It's where you can set up alarm notifications, take control of your boat and so much more[1].

STORE DATA



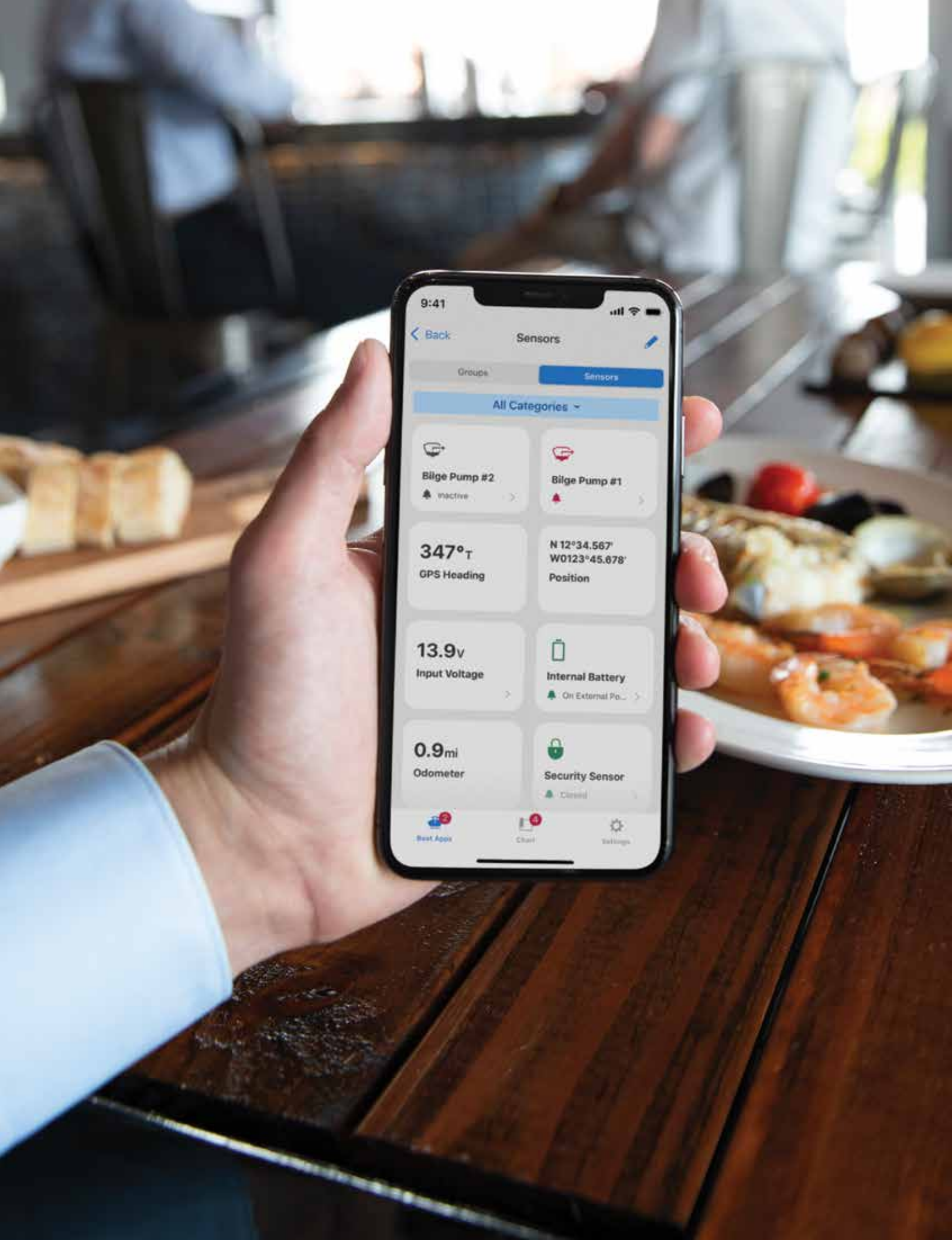
Securely collect vessel data with the GTB 10 OnDeck Hub and store it in the cloud for up to 30 days.

ONDECK HUB



The GTB 10 hub uses 3G/4G coverage.

[1]An active subscription plan is required. Both the OnDeck Hub and user's device must have connectivity to 3G/4G network.


9:41
Back
Sensors
Groups
Sensors
All Categories
Bilge Pump #2
Inactive
Bilge Pump #1
347°T
GPS Heading
N 12°34.567'
W0123°45.678'
Position
13.9V
Input Voltage
Internal Battery
On External Po...
0.9mi
Odometer
Security Sensor
Closed
Boat Apps
Chart
Settings

DIGITAL SWITCHING AND MONITORING

GARMIN BOAT SWITCH

Get the integrated-boat experience with digital switching that allows you to operate onboard electrical functions right from your compatible GPSMAP® or ECHOMAP™ chartplotter. Control your nav lights, dimmable cabin lights, bilge and livewell pumps, and even your horn. The system installs without special tools and allows you to easily add and name switches on your chartplotter display.



ALL-IN-ONE



Replace existing two-element systems — fuse box and switches — for easier control and operation of onboard functions.

DIGITAL CONTROL



Get control and protection of up to 20 circuits via your chartplotter rather than a physical button or switch.

ON-OFF SWITCHES



The toggle outputs operate bilge pump and nondimmable lights, such as nav lights and courtesy lights.

DIMMABLE OUTPUTS



Press-and-hold dimmers let you set your preferred brightness on board.

MOMENTARY OUTPUTS



Control horns and more. Simply press and release for desired length of horn beep.

MONITOR TANKS



Access built-in tank sender detection and calibration for as many as four tanks, such as fuel, freshwater, graywater, blackwater and livewell.

LIVEWELL TIMER



A built-in timer turns the pump to cycle the water to keep fish alive — and keep pumps functioning longer.


Interior Lights
Exterior Lights
13.4v
13.3v
Battery Management
GARMIN

DIGITAL SWITCHING AND MONITORING

EmpirBus brings all the power and convenience of advanced home automation to your vessel by allowing you to control and monitor all onboard electronic systems from your Garmin chartplotter or multifunction display: lighting, wipers, entertainment and security systems, air-conditioning, navigation lights and much more. EmpirBus replaces the standard mechanical circuit breakers and switches with state-of-the-art digital power distribution that provides reliable, convenient and easy-to-use operation.

ELEGANTLY SEAMLESS

An EmpirBus digital switching system comprises one or more compact digital distribution control modules (DCM) and master control units (MCU). The DCM supports between 16 and 31 circuits that are customized to meet the exact needs of the equipment being controlled. Each DCM connects to the existing NMEA 2000® network backbone, enabling it to communicate with the other DCMs and Garmin multifunctional displays via a WDU unit on the Garmin Marine Network. This flexible network architecture enables the DCMs to be mounted near the equipment they are controlling, providing a system that is simpler to install and troubleshoot. The MCU is the central processor that drives the system, providing computing power, intelligence and decision making. It talks to the other system components via the network.

CREATIVITY UNBOUND



EmpirBus systems feature fully customizable layouts and graphics that allow for every circuit switch or monitor to be shown in any configuration with a simple drag-and-drop graphic interface builder. Screens can even be personalized by uploading boat images.

USER INTERFACE FOR COMPATIBLE GARMIN CHARTPLOTTERS











AUDIO



FUSION® MARINE ENTERTAINMENT



FUSION® MARINE AUDIO

Enhance your time on the water with world-class marine audio entertainment products, including marine stereos, speakers, subwoofers and amplifiers. Our determination to continually innovate brings superior capabilities to our products, setting a new benchmark for marine audio entertainment.

FUSION DIGITAL SIGNAL PROCESSING (DSP)

A technically superior listening experience made simple, Fusion DSP optimizes the audio signal delivered to your Fusion entertainment system with preset profiles that can be set up for each audio zone on board. The result is superior sound quality at all volumes, in every listening environment.

WI-FI® AUDIO STREAMING WITH Apple AirPlay® 2

Wi-Fi audio streaming provides higher-quality audio with a faster data transfer rate than BLUETOOTH® technology. With Apple AirPlay 2, you can seamlessly stream audio from your compatible Apple® device to multiple Apollo™ Series stereos[1] connected on the same network.



[1]MS-RA670/MS-WB675 will get Apple AirPlay 2, PartyBus and over-the-air software updates when connected via Ethernet to an external wireless router (sold separately), Garmin MFD or Apollo Series stereo network enabled with Wi-Fi technology. • Wi-Fi is a registered trademark of the Wi-Fi Alliance. The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Garmin is under license. AirPlay and Apple are trademarks of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google LLC. Google Play and the Google Play logo are trademarks of Google LLC.

FUSION® MARINE ENTERTAINMENT

STEREO NETWORKING

Connect multiple Apollo Series stereos[1] to the same network and enjoy integrated control of your boat's entire audio system. Key functionalities include:

STEREO GROUPING

Play the same synchronized audio source across multiple grouped stereos.

POWER OPTIONS

Turn on or off any stereo on the network from another stereo or remote.

VOLUME CONTROL

Individual or group volume control.

HOME ZONE

Easy access to audio control where the stereo is installed.

MULTI-ZONE™ TECHNOLOGY

Control your audio in up to four separate audio zones aboard your boat with Multi-Zone technology. Adjust the balance, subwoofer and volume levels — and name each zone for quick identification

MARINE PROTECTION

Designed specifically for use in the marine environment, Fusion products are perfectly at home on the water. They're made to withstand the elements and undergo ingress protection (IP) testing, pressure testing for speakers and subwoofers (ISO12216) and salt fog, UV, humidity and temperature testing.

FUSION AUDIO CONTROL

Link your Garmin MFD and Fusion marine stereo with Fusion-Link™ using an Ethernet or NMEA 2000® network wired connection for integrated audio control at the helm. Download the Fusion Audio app from the App Store® or Google Play Store™ to control your stereo from a compatible Apple® or Android™ device. You can also wirelessly control your stereo from a compatible Garmin smartwatch by downloading the Fusion® Audio app from the Connect IQ™ store app.





[1]MS-RA670/MS-WB675 will get Apple AirPlay 2, PartyBus and over-the-air software updates when connected via Ethernet to an external wireless router (sold separately), Garmin MFD or Apollo Series stereo network enabled with Wi-Fi technology. • Wi-Fi is a registered trademark of the Wi-Fi Alliance. The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Garmin is under license. AirPlay and Apple are trademarks of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google LLC. Google Play and the Google Play logo are trademarks of Google LLC.

FUSION® STEREOS

APOLLO™ MS-RA800



Ampify the moment with RA800 — our most advanced Fusion Apollo™ marine stereo to date. It features an upgraded internal amplifier plus a faster, more powerful processor with built-in DSP to support HD lossless audio. It also includes stereo networking for advanced audio zone control as well as Wi-Fi® connectivity and the AirPlay® 2 feature from Apple® for seamless streaming.

Sources: Apple AirPlay 2 / BLUETOOTH® / HDMI ARC / USB / iPhone®, iPod® / AUX x2 / AM, FM radio / DAB+

APOLLO™ MS-RA670



It features a brilliant, optically bonded, full-color LCD display; Fusion® DSP technology for a technically superior listening experience and system protection; Fusion-Link™ integration and control from compatible MFDs, smart devices and Garmin watches; Multi-Zone™ control of up to three audio zones; Apple AirPlay® 2 and PartyBus™-Network capabilities when connected to a Wi-Fi® or Apollo network. The Apollo RA670 is truly a powerful extension of the Apollo Series.

Sources: AM, FM, Bluetooth, Apple AirPlay 2, digital optical input, USB audio, iPhone®, iPod®, AUX x1, UPnP, MTP

APOLLO™ MS-WB675



Designed to save space at the helm while offering superior quality audio on board, the MS-WB675 is a compact hideaway stereo capable of being mounted inside storage lockers, helm consoles and other concealed compartments. Features include Fusion DSP and PartyBus via Ethernet for freedom of musical choice across your boat with Multi-Zone technology in four zones. When the MS-WB675 is connected via Ethernet to an external wireless router (sold separately), Garmin MFD or Apollo Series stereo network enabled with Wi-Fi technology, it will gain Wi-Fi audio streaming with Apple AirPlay 2 and over-the-air software updates. The MS-WB675 is designed to integrate with compatible Garmin MFDs and Fusion wired remotes such as the MS-ERX400.

Sources: Apple AirPlay 2 / Universal Plug and Play (UPnP) / BLUETOOTH / digital optical in / USB / iPhone, iPod / AUX x1 / MTP / AM, FM radio / DAB+ ready (requires MS-DAB100A module)

APOLLO™ MS-SRX400



A perfect companion to the MS-RA800, the MS-SRX400 zone stereo combines premium design and superior sound in a compact form factor. It features a 2.7" optically bonded color LCD and built-in Wi-Fi and Apple AirPlay 2 for seamless high-quality audio streaming. Enjoy superior sound quality with Fusion DSP. PartyBus via Ethernet or Wi-Fi gives you the freedom of musical choice across your boat. Easily keep your stereo up to date with the latest features via over-the-air software updates.
The MS-SRX400 supports audio control from compatible MFDs and smart devices.

Sources: Apple AirPlay 2 / Universal Plug and Play (UPnP) / BLUETOOTH / AM, FM radio

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FUSION® STEREOS

MS-RA210



The MS-RA210 marine stereo is a stylish option for your boat that incorporates some Apollo Series' features, including a 2.7" optically bonded color LCD, Fusion DSP and Multi-Zone™ technology that gives you the option to control your audio in two zones. It supports audio control from compatible MFDs, smart devices and Garmin smartwatches.

Sources: BLUETOOTH / USB / iPhone, iPod / AUX x1 / MTP / AM, FM radio / DAB+ ready (requires MS-DAB100A module)

MS-BB100



Designed to save space at the helm, the MS-BB100 is a compact black box stereo capable of being hidden away in the dash or mounted inside storage lockers, helm consoles and other concealed compartments. Featuring Multi-Zone technology, it gives you the option to control your audio in two zones and supports audio control from compatible MFDs, smart devices and Garmin smartwatches. A wired remote is included, allowing you to control the MS-BB100 while occupying minimal dash space at the helm.

Sources: BLUETOOTH / USB / iPhone, iPod / AUX x1 / AOA / AM, FM radio / DAB+ ready (requires MS-DAB100A module)

MS-RA60



This modern, compact and economical marine stereo features a 2.3" perimeter bonded monochrome LCD, Multi-Zone technology that gives you the option to control your audio in two zones and support for audio control from compatible smart devices and Garmin smartwatches. Easily keep your stereo up to date with the latest features via over-the-air software updates from the Fusion Audio mobile app on your compatible device.

Sources: BLUETOOTH / AUX x1 / AM, FM radio / DAB+

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FUSION® STEREOS

FUSION® MS-NRX50



Enjoy single-knob control of your audio volume out on the water with this easy-to-use device. The wired controller connects to your boat's NMEA 2000 network and is IPX7-rated for harsh marine environments. Its large control knob simultaneously adjusts all audio zones of a single stereo, with simple play/pause control at the push of a button. The controller's front-mounted design requires just a single 1.5" (38 mm) hole for easy installation on your dash.

MS-ARX70



Enjoy the freedom to control your audio from anywhere around your boat with the MS-ARX70 wireless remote. Rated both IPX6 and IPX7 for water-resistance, it's perfect for the swim platform, bow, transom or anywhere you want quick audio adjustment. Fitted with high-bonding tape, installation is super easy — simply place and pair with your compatible Fusion stereo without the need to cut holes, run wires or add screws.

APOLLO™ MS-ERX400



Sleek, compact and easy to install, the MS-ERX400 wired remote allows you to add intuitive and integrated audio control to any zone on your boat. It features a 2.7" optically bonded color LCD and full PartyBus™-Network control. Installation is easy with only a single ERX400 network/power cable, and the ultra-shallow mounting depth of 1.93" (49 mm) allows the remote to be mounted in a variety of areas on board.

MS-NRX300



Take control of your audio entertainment with the MS-NRX300 black wired remote and enjoy localized audio control from any zone on board your boat. Featuring a 2.6" optically bonded dot matrix LCD, the remote is designed to perform and last on board. Installation is easy with only a single NMEA 2000® drop cable. When the MS-NRX300 is connected to an existing NMEA 2000 network with other marine electronics, the remote can also display data such as wind data, depth, speed, heading, position, ETA and water temperature.

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iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.

FUSION® SPEAKERS AND SUBWOOFERS

APOLLO™ COAXIAL SPEAKERS



Surrender to the sound with Fusion Apollo™ coaxial marine speakers, and enjoy immersive, high-fidelity audio on the water. Complete the look, and customize your speakers with the included interchangeable grilles (sports white or sports gray is included; others are sold separately). Showcase your boat with the dual-hue LED lighting rings that provide a unique look.

Available in: 6.5″ | 7.7″ | 8.8″

APOLLO™ SUBWOOFERS



Don't just hear the music. Feel it. Surrender to the sound with Fusion Apollo™ marine subwoofers, and complement your music with immersive and high-fidelity bass on the water. Complete the look, and customize your subwoofers with the included interchangeable grilles (sports white or sports gray is included; others are sold separately). Showcase your boat with the dual-hue LED lighting rings that provide a unique look.

Available in: 10″ | 12″

XS SERIES SPEAKERS



Enjoy high-performance acoustics and multicolor RGB LED lighting (requires Fusion MS-RGBRC wireless remote for full illumination control) with the XS Series speakers. The injection-molded polypropylene cone provides clean, clear audio reproduction while the aluminum dome tweeter delivers a smooth upper frequency response. The grilles are easily interchangeable with 2 colors included in the box (others sold separately), allowing you to match the style to your boat.

Available in: 4″ | 6.5″ | 7.7″

XS SERIES SUBWOOFERS



Enjoy high-performance, low-end frequencies and multicolor RGB LED lighting with the XS Series subwoofers. The injection-molded polypropylene cone produces defined low frequencies while the large voice coil delivers increased power. The grilles are easily interchangeable with 2 colors included in the box (others sold separately), allowing you to match the style to your boat.

Available in: 10″

CURV is a registered trademark of Propex Furnishing Solutions.

FUSION® SPEAKERS AND SUBWOOFERS

SIGNATURE SERIES 3i CLASSIC SPEAKERS



Bring on the elements. The Signature Series 3i coaxial speakers deliver crystal-clear audio and withstand the conditions like never before. With material enhancements for the harsh marine environment, these speakers feature new marinized connectors and a redesigned grille for easy installation and superior protection. CURV® Cone Technology creates a lighter and stronger composite for greater sound definition at a higher volume so you can enjoy that uncompromisingly pure listening experience on your boat, season after season.

Available in: 6.5" | 7.7" | 8.8"

XS SERIES WAKE TOWER SPEAKERS



The XS Series wake tower speakers deliver high-performance acoustics and multicolor RGB LED lighting for your wake boat. These speakers combine an injection-molded polypropylene cone with a precisely calculated enclosure for optimized sound on the wake. Multiple mounting accessories are available (sold separately), making onboard installation quick and easy. The grilles are easily interchangeable (sold separately), allowing you to match the style to your boat.

Available in: 6.5"

XS SERIES WAKE TOWER MOUNTING BRACKETS



These mounting brackets are designed for the XS Series 6.5" and Signature Series 3i 6.5" wake tower speakers. They're user-adjustable to fit wake tower bars of different diameters. The 2.5" pipe-mount bracket fits bars from 2" (50.8 mm) to 2.5" (63.5 mm) and the 2" bracket fits bars from 1.75" (44.5 mm) to 2" (50.8 mm). A flat mount bracket is also available for mounting onto a flat surface. They feature a UV-stable and salt fog-resistant aluminum alloy design.

Available in: 2.5" PIPE MOUNT | 2" PIPE MOUNT | FLAT MOUNT

FUSION® SPEAKERS AND SUBWOOFERS

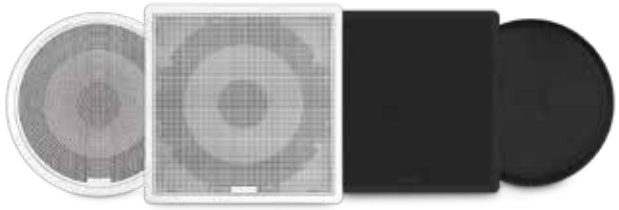
FM SERIES SPEAKERS



These flush-mount marine speakers are designed to deliver quality acoustics with a sleek and minimalistic aesthetic to meet modern boat design trends. Featuring a nonintrusive mounting system, they easily mount without the need to create screw holes in your boat. The injection-molded polypropylene cone provides clean, clear audio reproduction, while the aluminum dome tweeter delivers a smooth upper frequency response.

Available in: 6.5″ | 7.7″

FM SERIES SUBWOOFERS



These flush-mount marine subwoofers are designed to enhance your on-water listening experience with quality bass in a sleek and minimalistic aesthetic. Featuring a nonintrusive mounting system, they easily mount without the need to create any screw holes in your boat. The injection-molded polypropylene cone produces defined low frequencies while the large voice coil delivers increased power.

Available in: 10″

SM SERIES SPEAKERS



These shallow-mount speakers are designed for interior installations where mounting depth may be limited, with a depth requirement of only 0.94″ (24 mm). A tuned, sealed enclosure with an optimized 3″ speaker driver provides quality audio and protects the inner components, allowing these speakers to be installed without the need for rear speaker cups.

Available in: 6.5″

EL SERIES SPEAKERS



Enjoy quality audio and multicolor RGB LED lighting (select sports style models, requires Fusion MS-RGBRC wireless remote for full illumination control) in a shallow-mount design. These speakers have a mounting depth requirement of 1.69″ (43 mm), providing versatile installation on board. The injection-molded polypropylene cone provides clear audio reproduction while the lightweight voice coil delivers increased efficiency. The grilles are easily interchangeable (sold separately) allowing you to match the style to your boat.

Available in: 6.5″

FUSION® AMPLIFIERS AND ACCESSORIES

APOLLO™ AMPLIFIERS



Amplify the moment. The Fusion Apollo amplifiers are the difference between hearing the music and feeling it. Designed for use with compatible Fusion DSP-enabled stereos[1], these amplifiers feature easy tune setup (requires Fusion Audio mobile app on your compatible device) for automatic regulation of audio settings, so you can enjoy the best quality sound without needing to make manual adjustments. With minimal distortion and noise, multichannel models are capable of producing an impressive 150-watt RMS per channel and the monoblock model produces 650-watt RMS to drive a subwoofer. A compact zone amplifier is also available for audio zone expansion, allowing you to add speakers to more areas of your boat. Mounting brackets and accessory connectors are included, simplifying installation and wiring.

Available in: MONOBLOCK | 4 CHANNEL | 6 CHANNEL | 8 CHANNEL | ZONE AMPLIFIER

SIGNATURE SERIES AMPLIFIERS



Experience the power of music. The Signature Series amplifiers are designed to take your listening experience to a new level. With impressive protection from the marine environment, they deliver efficient, powerful performance on the water. Built to last on board, they feature conformal coated circuitry and an aluminum alloy heat sink for enhanced heat dissipation.

Available in: MONOBLOCK | 4 CHANNEL | 5 CHANNEL | 6 CHANNEL | 24-VOLT 6 CHANNEL | 8 CHANNEL

SIGNATURE SERIES 3i TWEETERS



Enhance your listening experience while on the move. These compact tweeters are designed to be mounted in raised positions to restore high frequencies so you can clearly hear vocals over engine, wind and wave noise. Water-resistant connectors provide simplified installation and superior protection against the elements.

[1]Compatible Fusion stereos include Apollo™ MS-RA770, Apollo™ MS-RA670, Apollo™ MS-WB675 and MS-RA210 (visit Garmin.com for list of latest compatible products)

FUSION® STEREO AND SPEAKER KITS

MS-RA210 AND XS SPEAKER KIT



Easily upgrade your existing audio entertainment system with a MS-RA210 stereo, a pair of XS Series non-illuminated speakers, NMEA 2000® drop cable, speaker cables, AM/FM antenna and mounting accessories. You'll have everything you need to quickly get out on the water and enjoy high-performance audio. Add additional speakers, subwoofers and amplifiers (each sold separately) for a superior on-water audio entertainment experience.

Available in: CLASSIC WHITE | SPORTS GRAY

MS-RA60 AND EL SPEAKER KIT



Easily upgrade your existing audio entertainment system with a MS-RA60 stereo, a pair of EL Series non-illuminated speakers, speaker cables, AM/FM antenna and mounting accessories. You'll have everything you need to quickly get out on the water and enjoy quality audio at an outstanding value. Add additional speakers, subwoofers and amplifiers (each sold separately) for an enhanced on-water audio entertainment experience.

Available in: CLASSIC WHITE | SPORTS GRAY



JL AUDIO®



GREAT SOUND FOR GREAT TIMES ON THE WATER

No matter what type of boat your voyage involves, there's nothing like a great audio system to set the tone for your fun times on board.

For nearly half a century, the name JL Audio has been synonymous with premium-engineered audio products that set the industry standard for performance, quality, value and reliability in challenging marine environments.

From loudspeakers, amplifiers and source units to subwoofers and accessories, the JL Audio lineup offers all the high-end components you need to create the ultimate on-water listening experience.

Crafted of the highest-quality materials, all JL Audio marine products are subjected to rigorous testing against harsh marine conditions, using high-tech simulations of real-life challenges, including water, moisture, UV exposure, salt and fog. As a result, these robust products easily exceed industry norms for environmental longevity to ensure years of consistent performance on your boat.

Fact is, if you're not hearing your favorite music through a JL Audio system, you're surely missing out on the clearest, richest, most dynamic sound reproduction ever to carry over the water.

BUILT FOR TRUE MARINE DUTY

PROTECTION FOR MARINE ENVIRONMENTS

Known for their durability and moisture resistance in harsh environments, all JL Audio marine products are built to deliver years of listening enjoyment and resistance to the elements. They're subjected to rigorous environmental testing and easily exceed international standards for salt/fog and UV exposure.

LET'S NETWORK

MediaMaster® marine source units from JL Audio are compatible with OneHelm™ data interfaces, allowing you to control your onboard audio systems — as well as other boat systems — from the screen of your networked Garmin MFD.

MARINE AMPLIFIERS WITH INTEGRATED DSP

Digital Signal Processing (DSP) technology permits each channel's timing, frequency response and output levels to be optimized for exceptional sound quality.

TüN® 4 SOFTWARE

Free TüN software is available for personal computers and compatible handheld devices. Its intuitive interface makes it easy to set up and adjust each amplifier channel's timing, frequency response and output levels for exceptional sound quality. Complex settings can be saved as presets for quick recall via a digital remote controller accessory.



PATENTED AMPLIFIER TECHNOLOGY



NEXD™ SWITCHING TECHNOLOGY

Small size, minimal heat, lots of power — Class-D amplifier design offers significant advantages. And our NexD switching technology adds even more, using enhanced pulse width modulation techniques to boost the amplifier's bandwidth while minimizing distortion and improving efficiency.

Available in: XDM and MX series amplifiers

NEXD2™ SWITCHING TECHNOLOGY

A next-level approach to improving what is already an outstanding Class-D design platform. NexD2 amplifier technology from JL Audio employs new components and more advanced circuit layouts to achieve significant enhancements in audio fidelity and power efficiency.

Available in: MVi series amplifiers

ADVANCED ROLLBACK PROTECTION

Should a JL Audio amplifier equipped with advanced rollback protection reach an unsafe operating temperature, a special circuit rolls back peak power output, without changing gain, until the amplifier cools down to a safe operating temperature. Once the amplifier cools down, the circuit restores full peak power output, and the indicator reverts to its normal state. The operation is inaudible in most cases, but it ensures that your music keeps on playing, even under the most demanding conditions.

Available in: MVi, MHD and XDM series amplifiers

REGULATED, INTELLIGENT POWER SUPPLY (R.I.P.S.™)

A central feature of the premium marine amplifiers from JL Audio, R.I.P.S. technology seamlessly adjusts and monitors operation to ensure consistent power delivery over a wide range of battery voltages and load impedances. With R.I.P.S., optimum power is achievable at any impedance between 1.5 ohm and 4 ohm per channel, and at any vehicle voltage between 11 volts and 14.5 volts.

Available in: MHD series amplifiers

SINGLE CYCLE CONTROL™

With this innovative JL Audio approach to Class-D amplifier control, audio correction is applied more than 400,000 times per second to eliminate distortion-causing signal anomalies and deliver unprecedented audio quality with reduced current draw and heat.

Available in: MHD series amplifiers

LIGHTING EFFECTS

TRANSFLECTIVE™ LED LIGHTING



This patented lighting technology, optional on most M6 and M7 series marine speakers, emits light through a specially engineered cone material to deliver a beautiful illumination effect with no hotspots or reflections on the cone surface. Select from a palette of fixed lighting colors — or add an optional RGB controller (sold separately) to create thousands of color variations. For even more versatility, add the optional Garmin Spectra™ marine lighting system and enjoy control of the LED lights on your boat from your compatible Garmin chartplotter or the ActiveCaptain® app on your compatible smartphone.



JL AUDIO® SOURCE UNITS

TAKE CHARGE OF YOUR AUDIO EXPERIENCE

Quality audio begins with a clean signal from a well-engineered source unit. Our MediaMaster® marine source units offer a wide variety of tuner and connectivity options for maximum listening flexibility and convenience on the water. Each model prioritizes audio performance with audiophile-quality, line-level outputs — ideal for use with JL Audio marine amplifiers. The helm-mount MediaMaster source units feature a beautiful full-color LCD display designed to be visible in bright sunlight. Certified NMEA 2000® connectivity is included for direct integration with vessel networks, allowing control from a variety of marine multifunction displays (MFDs). Enjoying quality audio on the water has never been easier or sounded better.

MM105



Equipped with a variety of tuner and connectivity options, plus multizone level controls, the MediaMaster MM105 model features weather-resistant construction (minimum IP66 rated) with large controls and full-color LCD displays incorporating selectable lighting themes — Day or Night. The unit includes an AM/FM tuner[1], BLUETOOTH® connectivity, USB connections with charging for USB drives or iPhone® devices plus 2 auxiliary RCA inputs — all designed to ensure nonstop enjoyment of the soundtracks to all your adventures.

MM105-HR



Operating behind the scenes as a hidden receiver, the MediaMaster MM105-HR includes all the features of the MM105, minus the LCD display. It can be controlled directly from your compatible MFD[2] or with the optional MMR-40 NMEA 2000 network controller, which has a full-color LCD display.

MM55



While the MediaMaster MM105 offers only line-level preamp outputs, the MM55 source unit is equipped with both line-level outputs and a robust 4-channel, 100-watt onboard amplifier (25-watt RMS x 4 channels) to directly power your loudspeakers. In addition to NMEA 2000 network connectivity, the MM55 offers a variety of source and media options that include global radio tuners, a USB input, analog AUX input and streaming audio capabilities, courtesy of BLUETOOTH® wireless technology.

MM55-HR



Including all the features of the MediaMaster MM55, minus the LCD display, the MM55-HR is a hideaway source unit that can be controlled directly from your compatible MFD[2] or with the optional MMR-40 NMEA 2000 network controller, which has a full-color LCD display.

MMA-1-HTML



This NMEA 2000-certified data interface for the MediaMaster MM105, MM105-HR, MM55 and MM55-HR source units is designed to interface MediaMaster-themed navigation and controls directly into your vessel's compatible MFD. This lets you pilot your boat and control your audio system seamlessly via your helm's MFD.

[1]Digital HD radio (North America) and DAB+ radio (Europe) services subject to local availability • [2]Refer to MFD manufacturer for compatibility information • NMEA®, NMEA 2000®, and the NMEA 2000 logo are registered trademarks of the National Marine Electronics Association. • The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Garmin is under license.• iPhone is a trademark of Apple Inc., registered in the U.S. and other countries.

REMOTE CONTROLLER OPTIONS

MMR-40 WIRED NETWORK CONTROLLER



Full-function NMEA 2000® network controller with full-color LCD display, for use with MediaMaster source units.

MMR-20-BE ROUND WIRED REMOTE



Non-display remote controller for use with MediaMaster source units.

MMR-25W BLUETOOTH® REMOTE CONTROLLER



Wireless remote controller for use with MediaMaster source units.

MMR-5N2K NETWORK VOLUME CONTROLLER



NMEA 2000 network compatible audio volume controller for MediaMaster.

MEDIAMASTER REMOTE APP



Easily navigate and command your boat's MediaMaster audio system from up to 35' away (11 meters) via wireless BLUETOOTH technology, using your compatible smartphone or tablet device.

BLUETOOTH RECEIVERS AND CONTROLLERS

MBT-CRXv3 AUDIO CONTROLLER AND RECEIVER



Using BLUETOOTH technology, this compact, water-resistant (IP67 rated) controller/receiver can receive audio wirelessly from your compatible streaming device up to 35' (11 meters) away. Independent audio zone level controls with LED color indicators ensure effortless command of your sound system while your streaming device is stowed safely away.

MBT-RXv2 WIRELESS AUDIO RECEIVER



The MBT-RXv2 is a compact, water-resistant Bluetooth receiver designed to add high-quality audio streaming to any sound system with line-level inputs, commonly used in boats, powersports vehicles, and other outdoor applications. It features Bluetooth 5.0 with the Qualcomm aptX HD codec for high-resolution audio, a sealed and IPX7-rated chassis for water resistance, and RCA outputs to connect to amplifiers.

NMEA®, NMEA 2000®, and the NMEA 2000 logo are registered trademarks of the National Marine Electronics Association.

JL AUDIO® SPEAKERS AND SUBWOOFERS

DISCOVER A SUPERIOR MARINE AUDIO EXPERIENCE

On seagoing and freshwater boats of all types, the JL Audio brand stands for unmatched quality, fidelity and power-handling performance in marine loudspeaker systems. Built with premium-grade materials, these speakers and subwoofers are rigorously tested using advanced salt-fog and UV test equipment, simulating years of exposure to the elements. As a result, these products far exceed typical industry standards for environmental longevity testing and performance in open-air marine audio installations.

M6 SPEAKERS AND SUBWOOFERS

M6 COAXIAL SPEAKERS



Engineered for stand-alone use or in conjunction with our marine subwoofers, M6 series marine speakers are built to deliver unmatched audio fidelity on the water. Equipped with a front-mounted tweeter, suspended above a woofer, all M6 coaxial systems are optimized to yield superior frequency response and smooth midrange dispersion. Long-excursion, DMA-optimized woofers and matching silk dome tweeters for each coaxial size produce superior output capability with impressive bass response and sparkling high frequency detail. For added visual interest, patented Transflective™ LED lighting is available as an option.

Available in: 6.5" | 7.7" | 8.8"
Grille option: Sport White, Sport Gray, Classic White

M6 ENCLOSED SPEAKERS



Equipped with our maximum-performance M6 speakers, the enclosed M6-ETXv3 and M6-VEX™ systems are designed to deliver pure audio delight — with strong projected output from your wake tower or other open-air installation. Available in 2 sizes, M6-ETXv3 models feature sleek marine-grade polymer enclosures for outstanding durability and clarity on larger vessels. For smaller boats or personal watercraft, the compact 6.5" M6-VEX pods are housed in tough, injection-molded enclosures and are optimized for use with a high-quality subwoofer system. Optional built-in RGB LED accent lighting is available on both the M6-ETXv3 and M6-VEX systems.

M6-ETXv3 models available in: 7.7" | 8.8"
M6-VEX models available in: 6.5"
Grille option: Sport White, Sport Gray, Classic White

M6 COMPONENT TWEETERS



Premium M6 series 1" component tweeters are built to deliver high output, wide dispersion and sparkling high-frequency detail to your onboard audio system. The light, fast-moving silk dome tweeter diaphragm provides excellent off-axis response and damping for balanced coverage in your listening environment. Plus, an automatic, solid-state circuit is on board to monitor current and minimize the possibility of tweeter failure. Flush- and surface-mount fixtures are included, and three mounting cup, tweeter mesh and trim ring combinations are offered. Like all M6 models, these component tweeters are built to withstand real-world saltwater conditions with an unsurpassed level of fidelity.

Available in: 1.0"
Grille option: Sport White, Sport Gray, Sport Titanium

M6 SUBWOOFERS



Available in 8" and 10" sizes, the M6 series subwoofers are an essential part of the JL Audio formula for great marine audio. A properly set up subwoofer system frees your smaller main speakers from the burden of reproducing the lowest frequencies in your music, allowing your whole system to play louder and sound cleaner at all listening levels. For visual interest, patented Transflective LED lighting is available on all models, producing smooth cone illumination with no hotspots or reflections on the cone surface.

Available in infinite baffle (IB) or enclosed use (W): 8" | 10"
Grille option: Sport White, Sport Gray, Classic White

JL AUDIO® SPEAKERS AND SUBWOOFERS

M7 SUBWOOFERS



Known as the "King of Bass," these massive JL Audio 12" subwoofers feature oversized, overbuilt components and powerful motor systems to produce staggering amounts of jaw-dropping bass in your marine audio system. A 4" voice coil and rugged suspension system deliver outstanding linear excursion for high output and power handling. Patented Transflective™ LED lighting is optional on all M7 models, emitting a smooth lighting effect through the woofer cone, with a choice of several lighting colors. Add an optional RGB controller to create thousands of color variations. Professional installation is recommended.

Available in: 12" infinite baffle
Grille option: Sport White, Sport Gray, Classic White

LUXE GRILLE SPEAKERS AND SUBWOOFERS

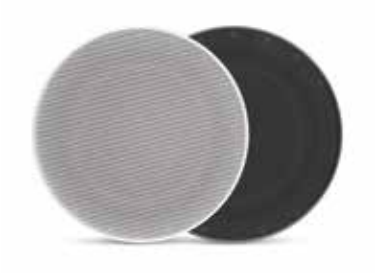
M6 LUXE SPEAKERS



Featuring low-profile, fine mesh grilles with marine-grade finishes, these Luxe Grille M6 coaxial speakers combine discreet design with top-flight audio performance for luxury marine installations. A long-excursion, DMA-optimized woofer and matching silk dome tweeter deliver superior output capability with impressive bass response and sparkling high-frequency detail. Exceeding expectations for performance in harsh marine environments, these premium M6 speaker systems are found in some of the finest, most elegant boats in the world.

Available in: 6.5" | 7.7" | 8.8"
Grille option: White, Black

M6 LUXE SUBWOOFERS



Able to generate smooth, powerful bass while blending in with the finest vessel designs, these Luxe Grille M6 subwoofers are built with rugged suspension systems and long excursion capabilities to bring out the best in your JL Audio marine sound system. The Luxe subwoofers are outfitted with a low-profile mounting bezel and a fine mesh grille for minimal protrusion into cabin space. Like all M6 loudspeakers, this Luxe version is built to withstand a real saltwater marine environment for years of high-end listening enjoyment.

Available in infinite baffle (IB): 8" | 10"
Grille option: White, Black

M6 LUXE THIN-LINE SUBWOOFERS



Engineered to give a tight, clean, articulate bass performance at all power levels with the DMA-optimization. These Thin-line Luxe Grilles M6 subwoofers are sleek and stylish built with the Concentric Tube Suspension™ design which allows for a shallow 96,5 mm mounting depth, enabling incredible performance — even in the tightest spaces. Like all products in our M6-series, this version is built to withstand a real saltwater marine environment for years of high-end listening enjoyment.

Available in: 8"
Grille option: Black / White / Round / Square

JL AUDIO® SPEAKERS AND SUBWOOFERS

M3 SPEAKERS

M3 COAXIAL SPEAKERS



Born from the same DNA as the flagship JL Audio M6 drivers, our M3 marine speakers are engineered for those who value outstanding sound quality at a lower price point. Built alongside their M6 counterparts, the M3 series uses the same marine-grade materials to ensure outstanding longevity in open-air environments. Designed to benefit from operation with quality amplification, M3 marine speakers are also suitable for use with standard marine head-unit power. Built-in RGB LED lighting is also available on all sport grille M3 models to add visual highlights to your boat.

Available in: 6.5" | 7.7"
Grille option: Sport White, Sport Gray, Classic White

M3 ENCLOSED SPEAKERS



Sealed enclosures for these M3 series speakers are tuned to provide optimal sound while keeping the elements out. They're ideal for delivering clean, loud audio from your wake tower or other open-air installation. For larger vessels, the M3-ETXv3 systems' sleek polymer enclosures house an oversized 7.7" coaxial driver for fuller sound with strong mid-bass output. For smaller boats or personal watercraft, the ultra-compact 6.5" M6-VEX™ pod speakers are housed in tough, injection-molded enclosures and are optimized for use with a high-quality subwoofer system. Optional built-in RGB LED accent lighting is available on both the M3-ETXv3 and M3-VEX™ systems.

M3-ETXv3 available in: 7.7"
M3-VEX available in: 6.5"
Grille option: Sport White, Sport Gray, Classic White

M3 SUBWOOFERS



Delivering outstanding sub-bass performance in moderate power applications, the M3 series of infinite-baffle subwoofers provides a strong but affordable foundation for your boat's audio system. Designed with the same DNA as our flagship M6 series speakers, the M3 subwoofers deliver rich bass that will impress you, not only with its sheer level, but also with its smoothness, balance and precision. For visual interest, optional built-in RGB LED accent lighting is available on M3 sport grille models.

Available in: 10" infinite baffle
Grille option: Sport White, Sport Gray, Classic White

STOWAWAY AND SPEAKER ACESSORIES

STOWAWAY™

STOWAWAY ENCLOSED SUBWOOFER SYSTEMS



Purpose-built for adding outstanding bass performance in unconventional applications, these rugged StowAway™ subwoofer systems take full advantage of the extremely small box requirements of the TW1 driver to generate smooth, powerful and articulate bass from surprisingly compact enclosures. All models feature a down-firing hard-shell enclosure that can be mounted almost anywhere.

Available in: 10" | 12"; 2 ohms or 4 ohms

SPEAKER ACCESSORIES

MLC-RW MARINE LIGHTING CONTROLLER



This compact LED lighting controller works with your LED speakers to give you total control over the light show on your boat. It fits almost anywhere and lets you choose from fixed lighting colors or custom control of the color and intensity of your lighting. It produces up to 30 amps (400 watts) of continuous output to power your light system, and you can use it with the rotary encoder or control lighting remotely by using the built-in Wi-Fi® connection and the LiteWave app on your compatible smartphone.

ETXv3 MOUNTING HARDWARE



Featuring a tough, clear anodized finish that's UV/corrosion resistant, mounting fixtures for ETXv3 enclosures are available to fit a variety of OEM boat towers. Each fixture is precision-machined from marine-grade aluminum to create rock-solid attachment points.

LIGHT CAPS FOR ETXv3



Purpose-built for ETXv3 enclosures, each of these machined aluminum caps features a built-in, down-firing LED light strip to illuminate the area below it. For retrofitting, each light cap can mount over an enclosure's existing rear logo cap.

NEOPRENE COVERS FOR ETXv3



Constructed from 3-mm neoprene, these durable protective cases are designed to provide stylish but serious protection for JL Audio ETXv3 enclosed speaker systems. They're designed to work with any mounting clamp/application, and a high-quality #5 zipper with locking slider on the front facilitates quick, easy covering or removal.

Wi-Fi is a registered trademark of the Wi-Fi Alliance.

JL AUDIO® AMPLIFIERS

THE POWER BEHIND YOUR PREMIUM AUDIO EXPERIENCE

Benefiting from decades of JL Audio engineering experience, these cutting-edge amplifiers combine superb sonic quality with high-efficiency design that draws less current per watt of power output versus conventional marine systems. This allows these amps to be more compact, run cooler and reduce stress on your boat's electrical system. From the ultracompact MX series amplifiers to our state-of-the-art MVi models with integrated Digital Signal Processing (DSP), you are certain to find the right model to fit your system's needs — allowing you to enjoy clean, pure audio output and legendary durability for years of reliable marine service.

MVi AMPLIFIERS WITH INTEGRATED DSP



Engineered for first-class audio fidelity, the MVi series marine amplifiers combine a full range of advanced DSP functions with cutting-edge NexD2™ amplifier technology. The result is a striking new level of audio performance and onboard tuning capabilities. Adjustable high-pass and low-pass filters allow you to customize audio output to match your speaker setup. And instead of traditional knobs and switches, free TüN™ software on your PC, tablet or smartphone is used to make all setup and audio adjustments. To protect against the elements, the MVi series utilizes a powder-coated cast alloy chassis with corrosion-resistant hardware and connectors.

Available in: Monoblock 600-watt or 1000-watt | 2-channel 600-watt | 4-channel 400-watt | 5-channel 700-watt or 1000-watt | 6-channel 600-watt | 8-channel 800-watt
Accessories: MVi-HUB Network Hub, M-DRC-50 Digital Preset Controller, MVi-DRCADAPT Rotary DRC Adaptor

MHD AMPLIFIERS



Combining groundbreaking Single Cycle Control™ switching and regulated, intelligent power supply (R.I.P.S.™) technologies, these MHD stereo amplifiers deliver world-class, full-range fidelity and ultra-powerful output from a surprisingly small package. The amplifiers' advanced technology wastes very little power compared to conventional marine systems, resulting in less heat being generated for each watt of output. This allows more clean, raw power to be extracted from a very space-efficient chassis. Plus, the fact that all MHD amplifier models share the same compact footprint makes for easy stacking of units in tight-space installations.

Available in: Monoblock 750-watt | 4-channel 600-watt | 5-channel 950-watt | 24V 4-channel 600-watt or 5-channel 950-watt
Accessories: MHD-RLC Remote Level Control, HD_STACK_KIT Amplifier Stacking Hardware

XDM AMPLIFIERS



In the XDM series of marine amplifiers, advanced NexD™ switching technology achieves exceptional efficiency, reducing current draw and heat for reliable, high-power output within a compact, easy-to-install unit. With total amplifier efficiencies exceeding 80%, the XDM series' energy-saving advantages also make them much kinder to your boat's electrical system than conventional amplifiers of similar power. Beneath each amplifier's sealed security cover, you'll find studio-grade signal processing with fully variable crossover filters. Differential-balanced inputs support outstanding noise rejection and crystal-clear audio performance on your boat.

Available in: Monoblock 300-watt, 600-watt or 1000-watt | 2-channel 200-watt | 3-channel 500-watt | 4-channel 400-watt | 5-channel 700-watt or 1000-watt | 6-channel 600-watt | 8-channel 800-watt | 24-volt 6-channel 600-watt or 8-channel 800-watt
Accessories: M-RBC-1 Remote Bass Control

MX AMPLIFIERS



Ultracompact and ultra-efficient, these MX series amplifiers pack a serious audio punch to bring your music to life. They employ an advanced NexD switching design with a full range of high-end signal processing capabilities to generate loads of clean power while minimizing distortion and improving efficiency overall. The space-saving, powder-coated cast aluminum chassis is corrosion resistant and boasts an IPX7 water-resistance rating, making it ideal for applications where humidity and moisture are part of the equation.

Available in: Monoblock 300-watt or 500-watt | 4-channel 280-watt or 500-watt | 3-channel 600-watt
Accessories: M-RBC-1 Remote Bass Control

AP AMPLIFIERS



Enjoy every note from every part of your boat with these tough, ultracompact AP series amplifiers. They're built to IP67 standards (excluding cables) to withstand harsh marine environments. Employing highly efficient Class-D switching design, they offer low battery drain while delivering ample power to the connected speakers/subwoofers for a superior level of audio performance. The available Easy Tune feature helps streamline amplifier setup — automatically optimizing audio settings. And a 4-channel amp version featuring Bluetooh® technology adds the capability to pair with your compatible smartphone for seamless audio streaming. This version also comes with a wired remote that can be flush-, surface- or bar-mounted for easy control wherever you need it.

Available in: Monoblock 300-watt | 4-channel 300-watt | Staggered-power 6-channel 600-watt

JL AUDIO® MARINE CONNECTION SYSTEMS

QUALITY ENGINEERED FOR TOUGH MARINE ENVIRONMENTS

AUDIO INTERCONNECTS



Our marine audio interconnect cables feature brass connector bodies with marine-grade plating and an over-molded design that prevents corrosion. Twisted pair construction minimizes the likelihood of induced noise to keep your music clean.

JACKS FOR PANEL MOUNTING



Weatherproof panel-mounting jacks allow you to create a permanent connection point for a wide variety of portable audio sources.

AMPLIFIER POWER KITS



Enhance the safety of your audio system and vessel with secure power connection wiring and the included marine circuit breaker. As with all our premium kits, the power wire is true AWG-spec, pure OFC copper, which is tinned to combat corrosion.

BATTERY CONNECTORS



The XB-BTU battery connector is ideal for systems requiring multiple power connections at the battery. The included adapter collar allows it to be used for negative or positive post connections. OmniSert™ technology ensures secure, high-integrity wire contact.

DISTRIBUTION BLOCKS



Four-way or two-way MAXI™ fused power distribution blocks accept wire from 1/0 to 4 AWG, while the fused outlets each accept wire from 4 AWG to 8 AWG. OmniSert receptacles capture various size wires without the need for adapter sleeves. Fuses sold separately.

MASTER CIRCUIT BREAKERS



Protect your marine audio system with these waterproof, ignition-protected XMD-MCB series circuit breakers. They eliminate the need to replace blown fuses and can withstand immersion in water up to 1 meter deep.

POWER WIRE



Premium tinned OFC copper power wire is available in ABYC standard red or yellow jackets and produced to true 6 AWG or 2 AWG specifications. The flexible PVC jackets are oil- and gas-resistant with UV inhibitors.

SPEAKER WIRE



Premium 12 AWG or 16 AWG marine speaker cable features parallel conductors, tinned for corrosion resistance. The soft, white PVC jacket makes the wire very flexible, and the all-copper wire construction makes sure your signals are transmitted with minimal resistance.

MULTIFUNCTION WIRE



Marine-grade, 6-conductor, white multifunction cable conveniently includes speaker and power wire for LED speakers, all in one cable. It's ideal for use with JL Audio speakers and subwoofers featuring built-in RGB LED illumination.

GARMIN SPECTRA™ LED CONTROL MODULE



010-02829-00 | Garmin Spectra™ LC102



010-02830-00 | Garmin Spectra™ LC302

Set the vibe for your ride with the Garmin Spectra marine lighting system. This compact lighting controller makes it easy to control LED lights on your boat with your compatible Garmin chartplotter or the ActiveCaptain® app on your compatible smartphone. Fusion Apollo™ marine stereos can control select functions (including scene selection, choosing audio sync modes and effects) from the stereo UI. You can also control LED illumination on Fusion® and JL Audio speakers and subwoofers. For premium onboard entertainment, match the lights to the beat with the audio sync feature. The controller is available with one or three outputs and provides boaters with the option of setting up separate lighting groups on their vessels. Optimize your time on the water with a seamless integrated lighting control system.

IN YOUR CONTROL



Control lights over the NMEA 2000® network with your compatible chartplotter or with the ActiveCaptain® app on your compatible smartphone.

BE THE LIGHT DJ



From bow to stern and everything in between, this module lets you control and set up different light groups and scenes.

MATCH THE BEAT



See the beat by syncing the LED lights to the music track with the audio sync feature.

SPECIAL SPECTRA FEATURES

- Compact integrated LED light controller can be installed in tight spaces
- Two variants available: LC102 with one output and LC302 with three outputs
- Control and set up different light groups and scenes
- Scalable system allows captains to add more lights after the initial setup
- Control lights over the NMEA network with your compatible chartplotter or with the ActiveCaptain® app on your compatible smartphone
- See the beat by syncing the LED lights to the music track with the audio sync feature
- Simple setup and installation
- Built to withstand the abuse of life on the water (in accordance with IP66/IP67 ratings)
- Supports lighting systems that draw less than 2 amps




GARMIN

MARINE LIGHTING



LUMISHORE® LIGHTING SYSTEMS



Transform your time on the water with premium LED lighting systems designed for every environment above and below the surface. Offering a full range of lighting solutions for vessels of all sizes, the Lumishore lineup from Garmin delivers exceptional performance, reliability and total control through seamless integration with Garmin displays and systems.

ABOVE-WATER LIGHTING

From compact day boats to large motor yachts, there's a lighting system for every vessel. The ECLIPSE and LUX collections provide tailored solutions for all onboard lighting applications — from deck and cockpit illumination to interior and accent lighting. Each system delivers reliable performance, straightforward installation, and seamless integration with compatible Garmin MFDs or dedicated controllers.

UNDERWATER LIGHTING

Create a stunning, uninterrupted halo of light beneath your boat with powerful LED lighting systems engineered for performance and reliability. From surface-mounts to thru-hulls, each system delivers exceptional brightness, color consistency and control across every zone on your vessel. Available in single-color, dual-color and full-spectrum color-change options, these lights provide wide-beam illumination with flexible control from dedicated switches or compatible Garmin multifunction displays.

THE LUX LIGHTING COLLECTION



A fully color-tunable smart lighting system, the LUX collection is designed to create the perfect onboard atmosphere. Precise CRGBW control offers everything from cool to warm whites and a full spectrum of colors in one fixture.

With LUX, it's easy to manage your entire lighting system from your compatible multifunction display, Lumishore display or smart device. You can also adjust intensity and white balance, choose from preset scenes or activate dynamic effects such as strobe, sweep, color cycle and sound-to-light for the ultimate onboard experience. LUX systems are compatible with 12- or 24-volt systems and are scalable for up to 32 lighting zones with support for a wide range of fixtures — including downlights, courtesy lights, flood lights, strip and neon flex lights, light bars, speaker light drivers and underwater lighting.

STRIP LIGHTS

Create your own ambience with a subtle blend of colors and incredible flexibility.

DOWNLIGHTS

Low-profile design for all ceiling heights, offered with a choice of bezel finishes and an optional anti-glare model.

COURTESY LIGHTS

Ideal for lighting interior or exterior walkways, stairs and architectural features of your boat.

LIVEWELL LIGHTS

Built for the harsh environment of live wells, fish boxes, splash wells or other wet places onboard.

FLOOD LIGHTS

Low-profile, high-intensity lights for decks, cockpits or general security illumination.

NEON FLEX LIGHTS

Flexible, dimmable strips that bend around curves and deliver a homogenous, dot-free look.

HIGH-INTENSITY LIGHT BARS

Sized from 20" to 50", these powerful light bars focus intense illumination where it's needed most on your boat.

WHY CRGBW?

Tunable white control allows you to adjust color temperature to match the onboard environment — from cool white that enhances focus and daylight conditions to warm white tones that promote comfort and relaxation. CRGBW technology combines cool white, red, green, blue and warm white LEDs within a single fixture, delivering a higher color rendering index (CRI) for more natural and accurate color representation of illuminated surfaces.

SEAMLESS LIGHTING INTEGRATION

The EOS-LUX Command Center is the central hub of the lighting system, enabling full control of the LUX lighting collection. Featuring preconfigured interfaces and plug-and-play connectivity, it simplifies installation and system setup. Connect directly to a compatible Garmin MFD, optional Lumishore display or smart device for instant access to lighting zones, color control and effects.

FLEXIBLE DISPLAY AND CONTROL OPTIONS

Designed for reliability and ease of use, the EOS-LUX Command Center delivers complete lighting management from a single point of control. Adjust color, brightness and white balance with an intuitive interface, and choose from preset modes such as strobe, sweep, cycle or sound-to-light. Create personalized scenes and manage multiple zones with ease.




300
V6
4.2L
300
V6
4.2L

THE ECLIPSE LIGHTING COLLECTION



Specifically designed for boats up to 45' — where space and simplicity are essential — ECLIPSE lighting systems are scalable for up to 6 zones onboard. They feature built-in drivers along with support for a wide range of above-water fixtures as well as underwater lights. You can control your entire lighting experience from a compatible multifunction display, smart device or switch. Plus, you can activate dynamic effects such as strobe, color cycle and sound-to-light for the ultimate in onboard ambience.

STRIP LIGHTS

Available in RGB, single-color blue or white and dual-color blue and white with 60 LEDs per meter.

DOWNLIGHTS

Compact depth profile of less than an inch fits a wide range of indoor or outdoor spaces overhead.

COURTESY LIGHTS

Increase onboard passenger security by illuminating walkways, stairwells, helm stations and other structural elements.

FLOOD LIGHTS

Cast a wide, powerful beam of white light to illuminate those hard-to-see places on board.

NEON FLEX LIGHTS

Ideal for decorative and accent lighting, these strips are dimmable, flexible and suitable for indoor or outdoor use.

HIGH-INTENSITY LIGHT BARS

Sized from 20" to 50", these powerful light bars focus intense illumination where it's needed most on your boat.

CONTROL YOUR ECLIPSE LIGHTS YOUR WAY

A compact, plug-and-play ECLIPSE Command Center features built-in drivers, multiple lighting zones and straightforward installation. It comes preconfigured with 3 zones and can expand to 6 zones using optional modules. Built-in Wi-Fi® connectivity allows for control with smart devices, as well as the ability to connect with compatible MFDs for on-screen control of lighting zones, colors and effects through an intuitive interface.

UNDERWATER LED LIGHTING SYSTEMS



Delivering powerful, energy-efficient, wide-beam illumination, Lumishore® underwater lighting enhances the look of your boat while improving nighttime visibility on the water. Choose from surface-mount, thru-hull or interchangeable thru-hull fixtures to fit your installation requirements, available in full-color, dual-color and single-color options. Advanced optical engineering ensures consistent color and uniform brightness across all hues, while efficient thermal management supports long service life and reliability. Underwater lights can be controlled via a simple dedicated switch or integrated into the ECLIPSE or LUX lighting systems, enabling zone, color and effect control directly from compatible Garmin MFDs. When connected to an ECLIPSE or LUX Command Center, built-in Wi-Fi® technology allows control from compatible smart devices.

SURFACE-MOUNT – SMX

Easy to install and built for long-term use, these low-profile bronze fixtures deliver up to 7,500 fixture lumens and a wide 90-degree beam angle. With built-in drivers and minimal mounting requirements, SMX lights are a simple, reliable way to add bright underwater illumination.

THRU-HULL – THX

THX lights deliver wide 110-degree beam angles and up to 20,000 fixture lumens for powerful illumination beneath your boat. Designed for transom, side or bottom mounting, they pair a solid marine-grade bronze housing with a dedicated external driver for a secure installation and reliable performance in demanding conditions.

INTERCHANGEABLE THRU-HULL – TIX

Featuring an internal LED array and integrated driver, these lights make installation straightforward and allow the LED module to be serviced from inside the hull — with no need to haul the boat out. Offering brightness levels up to 20,000 fixture lumens with ultrawide beam angles, TIX lights offer high-output performance with the convenience of inside-hull access.

BUILT FOR HARSH MARINE ENVIRONMENTS

Every Lumishore light uses premium marine-grade materials for lasting clarity, durability and performance above and below the waterline. They're engineered to handle saltwater, UV exposure, impact and water ingress, season after season. Whether you're upgrading or installing a totally new system, count on Lumishore lights to deliver long-term reliability and exceptional performance, with the quality needed for demanding marine conditions.


SANLORENZO
MAREA

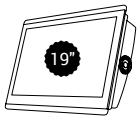


CHARTPLOTTERS



GPSMAP® 9000 MFD SERIES

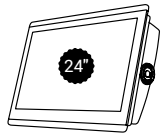




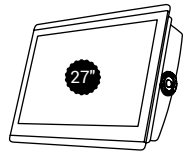
010-02673-00 | GPSMAP 9019



010-02674-00 | GPSMAP 9022



010-02675-00 | GPSMAP 9024

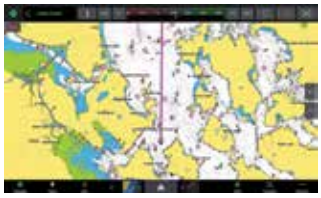


010-02676-00 | GPSMAP 9027

Designed for captains who demand the best, the large-format GPSMAP 9000 series is the industry's first integrated 4K-resolution, in-plane switching (IPS) touchscreen chartplotter. Featuring edge-to-edge clarity, premium materials, wide viewing angles and processing power that is 7 times faster than previous generation glass helms, these multifunction displays are offered in sizes ranging from 19" to a big-as-they-come 27" format. High-speed network processing gives you a wide range of connectivity options, making it easy to link your compatible MFDs, cameras, sonars and more on the Garmin BlueNet™ network. Enjoy high-quality entertainment with multimedia streaming and seamless video integration. Plus, you can also use spoken commands to control your helm with your compatible headset. For navigation, the GPSMAP 9000 displays are compatible with Garmin Navionics+™ charts with Auto Guidance+ technology[1] and premium Garmin Navionics Vision+™ charts.

4K RESOLUTION, IPS TOUCHSCREEN DISPLAY | HIGH-PERFORMANCE PROCESSOR | GIGABYTE SPEEDS ON GARMIN BLUENET™ NETWORK | VIDEO INTEGRATION CAPABILITIES

GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY



Highly detailed charts and maps featuring Navionics® data and Auto Guidance+ technology[1].

SONAR SUPPORT



Fish in stunning high definition. Hook up to any of our sonar modules, and view sonar targets on the 4K display (transducers & modules sold separately).

NMEA 2000® AND NMEA 0183 NETWORKS



Connect with autopilots, engine data, the Fusion® Audio system and other compatible marine sensors and ecosystems.

DIGITAL SWITCHING



Nearly all your boat system controls are available right at your fingertips.

ADDITIONAL SERIES FEATURES

- Premium, large-format 4K IPS touchscreen displays offer wide viewing angles, superior clarity and sunlight readability even with polarized sunglasses
- Processing power is 7 times faster than previous generations for superior performance on your luxury screen
- Build extensive networks with reliable connectivity and gigabyte speeds on the proprietary Garmin BlueNet™ network
- Enjoy high-quality entertainment with video integration capabilities with HDCP distribution
- See fish like never before. Hook up to any of our scanning, traditional or Live Sonar modules to view targets on the 4k display (transducers and blackboxes sold separately)
- Navigate with optional Garmin Navionics+™ charts; get support for Garmin Navionics Vision+™ charts with premium features such as relief shading
- Get your precise location with multi-band GPS and heading accuracy even at slow speeds with the included GPS 24xd position receiver and antenna
- OneHelm™ and EmpirBus™ bring full control of all your onboard boat systems, such as lighting, propulsion, pumps, air conditioning and infotainment to your MFD screen
- Connect your compatible Garmin devices with integrated BLUETOOTH® and ANT® technologies; use spoken commands to control the chartplotter with your compatible headset
- Built-in Wi-Fi® pairs with free ActiveCaptain™ app for access to OneChart™ downloads, smart notifications[2], software updates, Garmin Quickdraw™ Community data and more

[1]Auto Guidance+ is for planning purposes only and does not replace safe navigation operations • [2]When paired with a compatible smartphone; see Garmin.com/ble • Wi-Fi is a registered trademark of the Wi-Fi Alliance. • The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Garmin is under license.

GPSMAP® 9000XSV CHARTPLOTTER SERIES





010-03175-00 | 9010
010-03175-02 | 9010xsv



010-03176-00 | 9013
010-03176-02 | 9013xsv

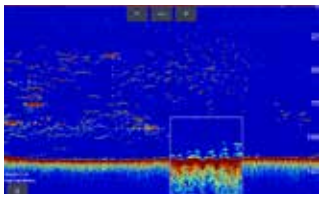


010-03177-00 | 9017
010-03177-02 | 9017xsv

Building on the success of the large-format Garmin GPSMAP 9000 series, these versatile midsize MFDs combine unmatched processing power, expanded connectivity options and the availability of our most advanced built-in HD sonar for seamless glass helm network integration. Offered in 10”, 13” and 17” display sizes, the high-resolution touchscreens feature vivid colors and wide viewing angles for crisp visibility from anywhere at the helm. The Garmin BlueNet™ network makes it easy to link multiple chartplotters, cameras, radars, sonars and more. Complatible with Garmin Navionics+™ and Garmin Navionics Vision+™ charts.

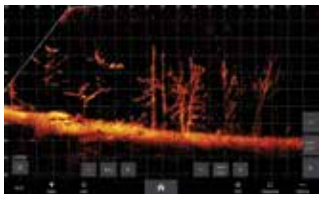
UP TO 4K RESOLUTION ON IPS TOUCHSCREEN DISPLAYS | GIGABIT SPEEDS ON GARMIN BLUENET™ NETWORK | HIGH PERFORMANCE PROCESSOR | XSV MODELS INCLUDE BUILT-IN SUPPORT FOR THE FULL SUITE OF GARMIN SONAR OPTIONS

HIGH-DEFINITION SONAR



Fish in stunning high definition with built-in 1 kW xCHIRP and Garmin RapidReturn™ sonar. Excellent target separation helps you see crisp and clear fish targets all around.d (sonar support on xsv models only).

LIVESCOPE™



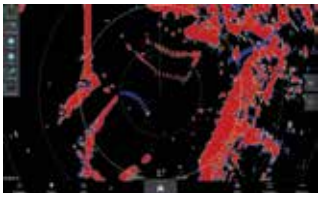
Supports all LiveScope sonar, including the LiveScope Plus and LiveScope XR system.

GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY



Highly detailed maps and cartography featuring Navionics data and Auto Guidance+ technology[1].

GMR FANTOM RADAR



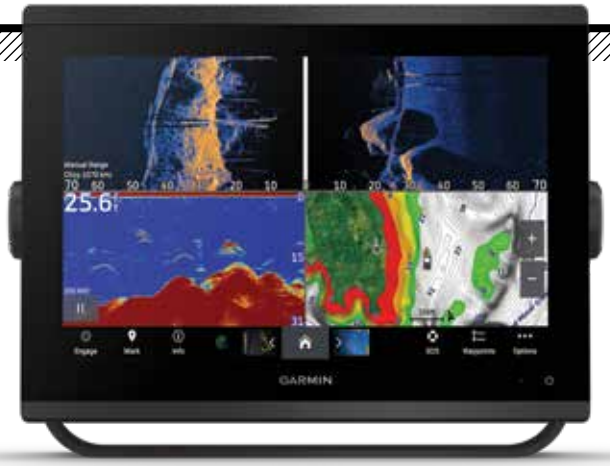
Supports Fantom™ radar with MotionScope™ technology.

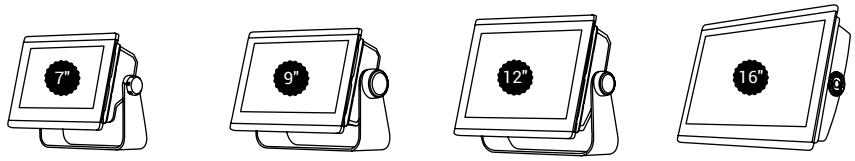
ADDITIONAL SERIES FEATURES

- Premium 4K IPS sunlight-readable touchscreen display available on the 13" and 17" models; 10" model features full HD display
- Built-in support for the full suite of Garmin sonar capabilities: xCHIRP and Garmin RapidReturn™, and see fish in stunning UHD„ the LiveScope systems, and the full line of Panoptix sonars (transducers sold separately)
- Adds a stunning appearance with ability to install multiple displays either flat mounted edge-to-edge to create a sleek glass helm look or mounted flush
- Fully NMEA 2000® and Garmin Marine Network capable to easily build your marine system, from sonar, radar and autopilots to instruments, cameras and multimedia
- Bluetooth, ANT, Wi-Fi® connectivity
- Take command of monitoring, control and automation systems with support for the EmpirBus™ system and other third-party solutions via OneHelm™ integrated digital switching
- Processing power is up to 7 times faster than previous generations for superior performance, plus get faster wireless ActiveCaptain® app transfer speeds with 5GHz Wi-Fi® connectivity
- Enjoy premium sailing features, such as sailing polars, plus see laylines, race start line guidance and more with Garmin SailAssist™ features
- Use built-in Wi-Fi® to pair with the free ActiveCaptain™ app for access to OneChart™, smart notifications[2], Garmin Quickdraw™ Community data and more
- Connect your compatible Garmin devices and more with integrated BLUETOOTH® and ANT® technologies; use spoken commands to control the chartplotter with your compatible headset or Garmin smartwatch

[1]Auto Guidance+ is for planning purposes only and does not replace safe navigation operations
[2]When paired with a compatible smartphone; see Garmin.com/bles
Wi-Fi® is a registered trademark of the Wi-Fi Alliance.

GPSMAP® X3 SERIES





010-02365-00 | GPSMAP 723
010-02365-02 | GPSMAP 723xsv

010-02366-00 | GPSMAP 923
010-02366-02 | GPSMAP 923xsv

010-02367-00 | GPSMAP 1223
010-02367-02 | GPSMAP 1223xsv

010-02919-00| GPSMAP 1623
010-02919-02 | GPSMAP 1623xsv

Boasting more pixels and processing power than previous-generation GPSMAP devices, these fast, responsive touchscreen units offer seamless network integration and support for traditional and scanning sonar capabilities[1], J1939 engine connectivity, OneHelm™ digital switching and more. GPSMAP x3 series are compatible with Garmin Navionics+™ and Garmin Navionics Vision+™ cartography.

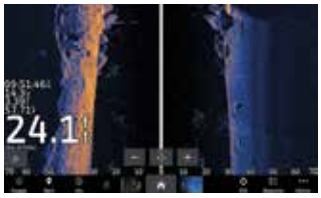
J1939 ENGINE CONNECTIVITY

ONEHELM™ DIGITAL SWITCHING CAPABILITIES

COMPATIBLE WITH GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY, BOTH FEATURING NAVIONICS DATAN AND AUTO GUIDANCE+[2]

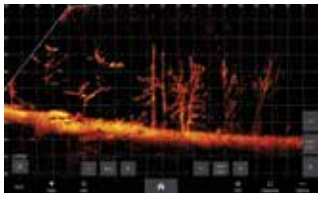
XSV MODELS INCLUDE BUILT-IN SUPPORT FOR THE FULL SUITE OF GARMIN SONAR OPTIONS

ULTRA HIGH-DEFINITION SONAR



Offers built-in support for the Ultra High-Definition scanning sonar system; no black box needed. (Sonar support on xsv models only)

LIVESCOPE™



Supports all LiveScope sonar, including the LiveScope Plus and LiveScope XR system.

GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY



Highly detailed maps and cartography featuring Navionics® data and Auto Guidance+ technology[2].

NMEA 2000® AND NMEA 0183 NETWORKS



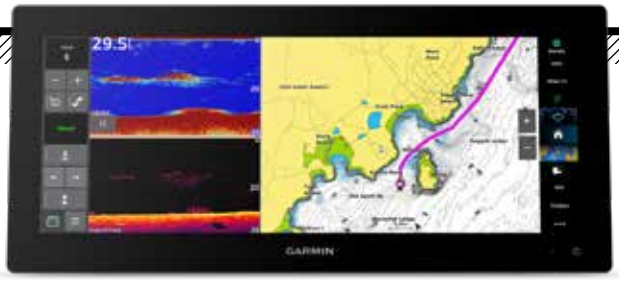
Connect to autopilots, digital switching, weather, your Fusion-Link™ audio system, media, VHF, AIS and more from one screen.

ADDITIONAL SERIES FEATURES

- Bright, easy-to-use, sunlight-readable displays have more pixels than previous-generation GPSMAP touchscreens for ultra-sharp visibility from any angle
- Slimline display borders, edge-to-edge glass and reduced unit footprint make for easy retrofit in a wider range of dash configurations
- Easily build your marine system — from compatible sonar and autopilots to compatible radar, cameras and multimedia — using NMEA 2000® and NMEA 0183 network connectivity and the Garmin Marine Network
- Use the exclusive OneHelm™ feature to connect to many third-party devices for full control of your boat on your chartplotter screen
- Use built-in Wi-Fi® networking to pair with the free ActiveCaptain® app[3] for access to OneChart™, smart notifications, software updates and more
- Integrated ANT® technology support for use with your compatible quatix® marine smartwatches, gWind™ Wireless 2 transducer, GNX™ Wind marine instrument and wireless remote controls
- Built-in Garmin SailAssist™ features, including laylines, race features, set and drift, wind data and more
- Compatible with Force™ trolling motor for full control of the motor from the chartplotter screen, plus the ability to route to waypoints, follow tracks and more

[1]Transducers sold separately
[2]Auto Guidance+ is for planning purposes only and does not replace safe navigation operations
[3]When paired with a compatible device; see Garmin.com/ble

GPSMAP® 15X3 ULTRAWIDE CHARTPLOTTER



010-03855-00 | GPSMAP 1523xsv UltraWide

Offering a sleek, space-optimizing aesthetic in a 15" edge-to-edge glass format, the GPSMAP 15x3xsv chartplotter clearly expands your viewing horizons. Plot your course with Garmin Navionics+™ mapping (sold separately) — or upgrade to premium Garmin Navionics Vision+™ charts. And view vivid sonar color palettes with built-in Ultra High-Definition SideVü™ and ClearVü™ scanning sonars plus support for optional 1 kW CHIRP traditional sonar (transducer required; sold separately).

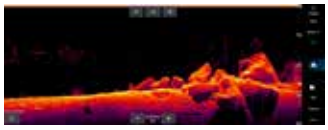
ULTRAWIDE 15" FULL HD IPS DISPLAY

TOUCHSCREEN WITH SPLIT-SCREEN CONTROL

FULLY NETWORKABLE

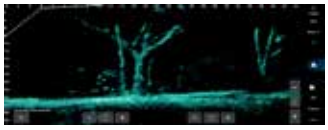
INCLUDES BUILT-IN SUPPORT FOR THE FULL SUITE OF GARMIN SONAR OPTIONS

ULTRA HIGH-DEFINITION SONAR



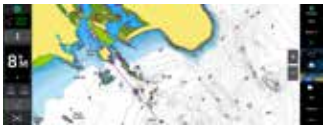
Offers built-in support for the Ultra High-Definition scanning sonar system; no black box needed.

LIVESCOPE™



Supports all LiveScope sonar systems.

GARMIN NAVIONICS+ CHARTS



Highly detailed charts and maps featuring Navionics® data and Auto Guidance+™[1] technology (sold separately.)".

NMEA 2000® AND NMEA 0183 NETWORKS



Connect with autopilots, the Fusion audio system and engine data.

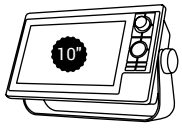
ADDITIONAL SERIES FEATURES

- Minimal display borders and edge-to-edge glass create a stunning appearance and make it easy to fit a wide range of helm configurations, including "floating display" installations
- Built-in Ultra High-Definition SideVü and ClearVü scanning sonars with high-contrast vivid color palettes help distinguish fish from structure; supports optional Panoptix™ and LiveScope sonar devices as well as CHIRP traditional sonar (transducer required; sold separately)
- Split-screen control lets you size and organize your display configuration to put the data you need right where you want it
- Garmin Navionics+™ coastal charts and inland mapping (sold separately) feature Auto Guidance+™ technology; plus, there's support for optional Garmin Navionics Vision+™ premium map content (Auto Guidance+ is for planning purposes only and does not replace safe navigation operations)
- See engine information such as RPMs, fuel flow and more for compatible engine manufacturers
- Connect and control compatible devices through EmpirBus™ digital switching and other OneHelm™ integrated digital switching-compatible products
- Easily build your marine system — from compatible sonar, autopilot, radars or cameras — by using NMEA 2000 and NMEA 0183 network connectivity and the Garmin Marine Network
- Use built-in Wi-Fi technology to pair with the free ActiveCaptain® app for access to OneChart™, smart notifications, software updates and more (requires app on your compatible smartphone)
- Integrated ANT+ technology supports connecting to your compatible quatix® marine smartwatch, gWind™ Wireless 2 transducer, GNX™ Wind marine instrument and wireless remote controls
- Get support and integration for your Force® trolling motor (sold separately) to gain complete control while you fish
- OEMs can customize the home screen or create custom combo pages for a brand tailored experience
- Built-in J1939 connectivity

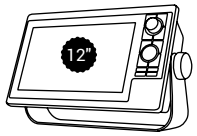
[1]Auto Guidance+ is for planning purposes only and does not replace safe navigation operations

GPSMAP® 1022/1222 SERIES





010-01740-00 | GPSMAP 1022
010-01740-02 | GPSMAP 1022xsv



010-01741-00 | GPSMAP 1222
010-01741-02 | GPSMAP 1222xsv

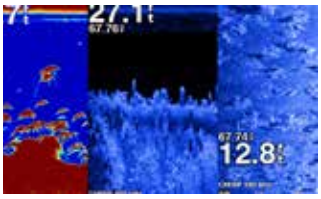
All-in-one networking chartplotter/sonar combos with large, bright screen coupled with a quick and easy-to-use keypad interface with user-programmable keys and a multifunction control knob. Built-in single channel CHIRP sonar, CHIRP ClearVü and CHIRP SideVü scanning sonar and LiveScope™ support. GPSMAP 1022/1222 series are compatible with Garmin Navionics+™ and Garmin Navionics Vision+™ cartography.

KEYED INTERFACE WITH MULTIFUNCTION CONTROL KNOB

FULLY NETWORKABLE

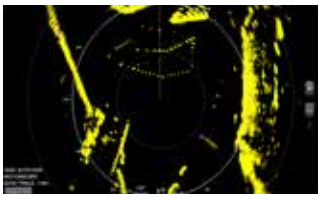
XSV MODELS INCLUDE BUILT-IN CHIRP TRADITIONAL, CLEARVÜ AND SIDEVÜ SCANNING SONAR

BUILT-IN SONAR



Built-in single-channel CHIRP sonar, CHIRP ClearVü™ and CHIRP SideVü™ scanning sonars with Panoptix™ and LiveScope™. (transducers sold separately). Sonar support only on xsv models.

FANTOM RADAR



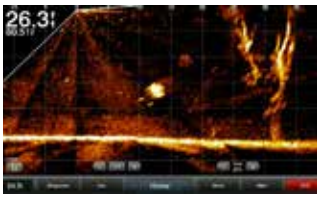
Supports Fantom™ radar with MotionScope™ technology.

GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY



Highly detailed maps and cartography featuring Navionics data and Auto Guidance+ technology[1].

LIVESCOPE



Supports all LiveScope sonar, including the LiveScope Plus and LiveScope XR system.

ADDITIONAL SERIES FEATURES

- Features a bright screen coupled with a quick and easy-to-use keypad interface with user-programmable keys and a multifunction control knob
- Built-in Garmin single-channel CHIRP traditional sonar, 1 kW CHIRP ClearVü and CHIRP SideVü scanning sonar (xsv models)
- Support all compatible Garmin sonar options plus black box sonar systems; view multiple sources simultaneously
- Force Trolling Motor Compatible
- Network compatible connectivity includes Wi-Fi®, ANT® technology, Ethernet ports, NMEA 2000, HDMI and USB ports, FUSION-Link integration
- Built-in Garmin SailAssist™ feature provides data, displays and prerace guidance needed to gain a competitive edge
- ActiveCaptain® application support

[1]Auto Guidance+ is for planning purposes only and does not replace safe navigation operations.

ECHOMAP ULTRA 2 SERIES





010-02879-00 | Ultra2 102sv w/o xdcr
010-02879-01 | Ultra 2 102sv w/ GT56



010-02881-00 | Ultra2 122sv w/o xdcr
010-02881-01 | Ultra2 122sv w/ GT56



010-02885-00 | Ultra2 162sv w/o xdcr
010-02885-01 | Ultra2 162sv w/ GT56

All the fishing tools are built in. ECHOMAP Ultra 2 models feature a 10", 12" or 16" touchscreen with keyed-assist IPS display. There's also support for the full line of LiveScope™ sonars as well as Ultra High-Definition ClearVü™ and SideVü™ scanning sonars[1] plus CHIRP traditional sonar. Both wired and/or wireless networking lets you share sonar, waypoints and routes with another ECHOMAP Ultra 2 or ECHOMAP UHD2 chartplotter on your boat (optional LiveScope sonar cannot be shared wirelessly). A handy screen recording feature lets you capture what you see on the chartplotter through the ActiveCaptain® app on your compatible smartphone. Plot your course with Garmin Navionics+™ mapping (sold separately) — or upgrade to premium Garmin Navionics Vision+™ charts. With a wireless connection to your Force® trolling motor, you can create and follow routes, navigate to waypoints, control speed and more.

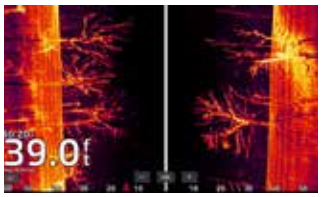
KEYED-ASSIST IPS TOUCHSCREEN DISPLAY

BUILT-IN CHIRP TRADITIONAL AND ULTRA HIGH-DEFINITION, CLEARVÜ AND SIDEVÜ SCANNING SONAR

COMPATIBLE WITH GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY, BOTH FEATURING NAVIONICS DATAN AND AUTO GUIDANCE+

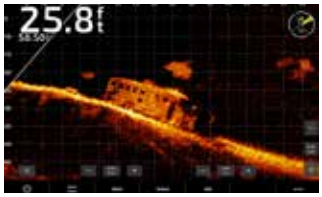
SHARE SONAR, CHARTS, WAYPOINTS AND ROUTES VIA WIRED OR WIRELESS NETWORKING[3]

ULTRA HIGH-DEFINITION SONAR



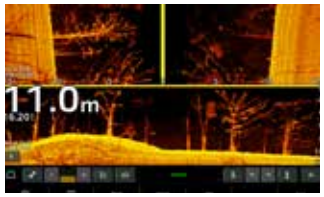
Built-in support for the Ultra High-Definition scanning sonar system, no black box needed.

LIVESCOPE™



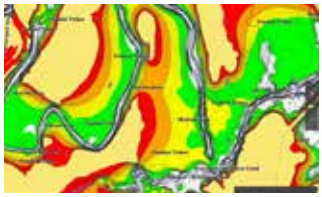
Supports all LiveScope sonar, including the LiveScope Plus and LiveScope XR system.

FORCE™ TROLLING MOTOR COMPATIBLE



Get full control of the motor from the screen, plus the ability to route to waypoints, follow tracks and more.

GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY



Highly detailed maps and cartography featuring Navionics® data.

ADDITIONAL SERIES FEATURES

- Built-in Quickdraw Contours mapping software instantly creates personalized fishing maps on-screen with 1' contours as you fish
- Built-in Wi-Fi® connectivity pairs with free ActiveCaptain® app for access to OneChart™ to purchase and download new charts; also receive smart notifications, software updates, Garmin Quickdraw™ Community data and more
- Network capable with NMEA 2000® connectivity and support for heading sensors, autopilots, digital switching and FUSION-Link™ audio system and more
- Quick-release mount for fast and easy mobility

[1]Available with or without included transducer
[2]Auto Guidance+ is for planning purposes only and does not replace safe navigation operations
[3]With other ECHOMAP Ultra 2 10" & 12" units, and ECHOMAP UHD2 SV series
Wi-Fi is a registered trademark of the Wi-Fi Alliance

ECHOMAP™ UHD2 SV SERIES





010-02679-00 | ECHOMAP UHD2 62sv, w/o xdcr
010-02679-01 | ECHOMAP UHD2 62sv, w/GT54 xdcr



010-02683-00 | ECHOMAP UHD2 72sv, w/o xdcr
010-02683-01 | ECHOMAP UHD2 72sv, w/GT54 xdcr



010-02687-00 | ECHOMAP UHD2 92sv, w/o xdcr
010-02687-01 | ECHOMAP UHD2 92sv, w/GT56 xdcr

These 6", 7" and 9" touchscreen chartplotter/sonar combos with keyed assist include or support transducers for Ultra High Definition ClearVü and SideVü scanning sonar plus Garmin CHIRP traditional sonar. They're also compatible with LiveScope™ live scanning sonar, as well as Garmin Navionics+™ and premium Garmin Navionics Vision+™ cartography.

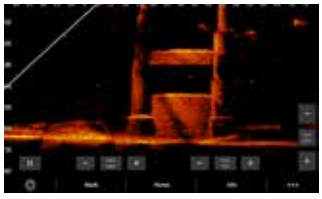
- BUILT-IN CHIRP TRADITIONAL AND ULTRA HIGH-DEFINITION CLEARVÜ AND SIDEVÜ SCANNING SONAR
- WIRELESSLY SHARE SONAR, WAYPOINTS, MAPS, AND ROUTES WITH ANOTHER UHD2 CHARTPLOTTER
- NMEA 2000® AND NMEA 0183 NETWORK SUPPORT FOR AUTOPILOT AND ENGINE DATA
- COMPATIBLE WITH GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY[1]

ULTRA HIGH-DEFINITION SONAR



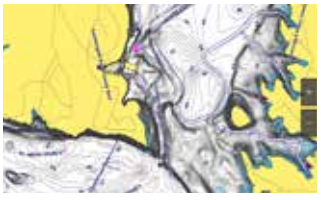
Built-in support for the Ultra High-Definition scanning sonar system, no black box needed.

LIVESCOPE™



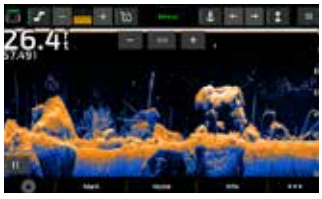
Features built-in support for LiveScope system sonar and the full line of live sonar products (optional transducers sold separately).

GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY



Highly detailed maps and cartography featuring Navionics® data.

FORCE™ TROLLING MOTOR COMPATIBLE



Get full control of the motor from the screen, plus the ability to route to waypoints, follow tracks and more.

ADDITIONAL SERIES FEATURES

- Quick-release bail mount for fast and easy mobility
- Built-in Wi-Fi® connectivity pairs with the free all-in-one mobile app on your compatible smartphone for access to the OneChart™ feature, smart notifications, software updates, Garmin Quickdraw™ Community data and more
- Your ECHOMAP UHD2 device supports a variety of Garmin transducers. The 6" and 7" chartplotters come bundled with a GT54 transducer — while the 9" chartplotter comes with a GT56 transducer
- High-contrast vivid scanning sonar color palettes make it easier than ever to distinguish targets and structure
- With crisp, clear traditional sonar and brilliant ClearVü and SideVü scanning sonars, the fish will have nowhere to hide. Your ECHOMAP UHD2 also supports LiveScope™ live-scanning sonar

[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations

ECHOMAP™ UHD2 CV SERIES





010-02589-00 | ECHOMAP UHD2 52cv,WW w/o xdcr
010-02589-01 | ECHOMAP UHD2 52cv,WW, w/GT20 xdcr



010-02593-00 | ECHOMAP UHD2 72cv,WW w/o xdcr
010-02593-01 | ECHOMAP UHD2 72cv,WW w/GT20 xdcr

Fish like a local with these easy-to-use 5" and 7" keyed chartplotter/sonar combos. Get clear, high-contrast views below your boat with Garmin traditional and ClearVü scanning sonars[1]. Know the waters you're in with support for Garmin Navionics+™ and Garmin Navionics Vision+™ cartography.

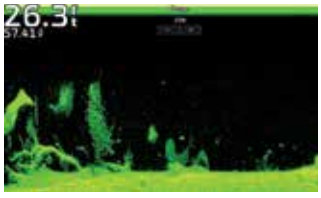
BRIGHT, SUNLIGHT-READABLE DISPLAY

BUILT-IN CHIRP TRADITIONAL AND CLEARVÜ SCANNING SONAR

COMPATIBLE WITH GARMIN NAVIONICS+ AND GARMIN NAVIONICS VISION+ CARTOGRAPHY, BOTH FEATURING NAVIONICS DATAN AND AUTO GUIDANCE+

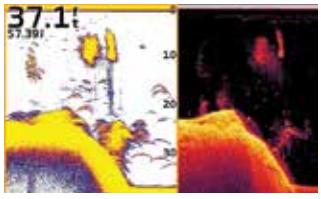
SHARE SONAR, WAYPOINTS AND ROUTES WITH OTHER ECHOMAP DEVICES

SONAR SUPPORT



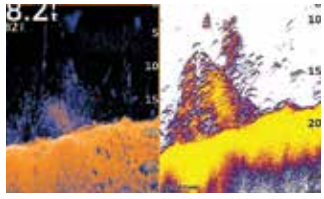
With crisp, clear traditional sonar and brilliant ClearVü sonar, the fish will have nowhere to hide.

VIVID COLOR PALETTES



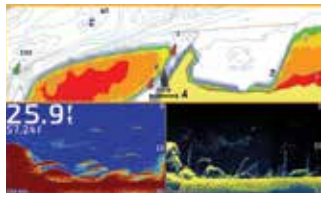
High-contrast vivid scanning sonar color palettes make it easier than ever to distinguish targets and structure.

BUNDLE YOUR TRANSDUCER



Your ECHOMAP UHD2 device supports a variety of Garmin transducers for two types of sonar: Garmin traditional and ClearVü scanning sonar.

WIRELESS NETWORKING



If you have another compatible ECHOMAP UHD2 chartplotter on your boat, the models can wirelessly share information such as sonar, waypoints and routes — with them.

ADDITIONAL SERIES FEATURES

- Use built-in Wi-Fi® networking to pair with the free ActiveCaptain® app for access to OneChart™, smart notifications, software updates and more[2]
- Support for Garmin Navionics+ and Garmin Navionics Vision+ marine cartography

[1]Transducer required (sold separately)

ECHOMAP® PLUS 42CV





010-01884-00 | ECHOMAP Plus 42cv w/o xdcr
010-01884-01 | ECHOMAP Plus 42cv, w/xdcr

This compact combo has lots of built-in benefits. Easy-to-install and even easier to use, it has a bright 4.3" display that is easy to read on a sunny day on the water. It features built-in support for Garmin CHIRP traditional sonar that delivers remarkable target separation and CHIRP ClearVü™ scanning sonar for nearly photographic images of what's below the boat. Compatible with BlueChart g3 and BlueChart g3 Vision, both featuring Navionics® data and Auto Guidance technology[1].

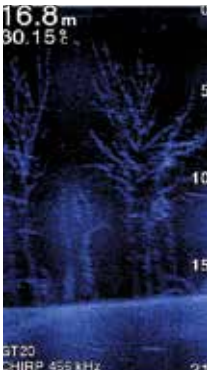
SUNLIGHT-READABLE DISPLAY

BUILT-IN CHIRP TRADITIONAL AND CLEARVÜ SCANNING SONAR

COMPATIBLE WITH BLUECHART G3 AND BLUECHART G3 VISION

BUILT-IN QUICKDRAW CONTOURS

BUILT-IN SONAR



All feature incredibly real CHIRP traditional and scanning sonar.

QUICKDRAW CONTOURS MAPPING



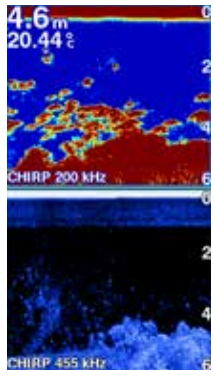
Create and store maps as you fish with 1' contours for up to 2 million acres.

BLUECHART G3 CHARTS



Highly detailed coastal charts featuring Navionics data.

COMBO SCREEN



View both traditional CHIRP and CHIRP ClearVü at the same time.

ADDITIONAL SERIES FEATURES

- Bright, sunlight-readable 4.3" combo
- Built-in support for Garmin CHIRP traditional sonar plus CHIRP ClearVü™ scanning sonar (transducer sold separately)
- Preloaded worldwide basemap; compatible with BlueChart® g3 and premium BlueChart® g3 Vision coastal charts with integrated Navionics® data and Auto Guidance[1] technology
- Built-in Quickdraw Contours mapping software instantly creates personalized fishing maps on-screen with 1' contours as you fish
- Share waypoints and routes with other ECHOMAP™ or STRIKER™ units

[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations





TROLLING MOTORS



FORCE™ PRO TROLLING MOTOR SERIES

Move fast, move quiet, move your fishing to a higher level with the Force Pro trolling motor from Garmin. Delivering 100 lbs of thrust (in compliance with ISO standard 13342), it's incredibly powerful. Yet it's also highly efficient, so you can count on it to fish all day. Featuring a scissor-style mount and your choice of 50" or 57" shaft lengths, Force Pro is designed specifically for bass boats. See everything around your boat with brilliant high-definition scanning sonar with the included all-in-one GT56UHD transducer. And once you've found the spot, stay put with our most precise anchor lock technology, now featuring reverse prop spin and calm-water cable unwrap to reduce motor activity. Make speed and steering adjustments wirelessly from anywhere on the boat with the included foot pedal or included remote with gesture control. In fact, you can even connect wirelessly with your compatible Garmin smartwatch to control steering, anchor lock and more, right from your wrist. You can also use your integrated chartplotter to draw a route, and the trolling motor will automatically navigate while you fish. The lighted indicator on the Force Pro trolling motor shaft cap means you can fish in low light and always know what direction you're headed.
Built with advanced corrosion and saltwater protection for harsh marine environments, Force Pro is the fishing companion you can count on year after year. And when the day's fishing is done, it's easy to hoist and stow the motor, thanks to dual gas springs and a durable pull cable.

Force Pro Trolling Motor, 50" - Part no. 010-03011-00
Force Pro Trolling Motor, 57" - Part no. 010-03011-10



CHARTPLOTTER INTEGRATION



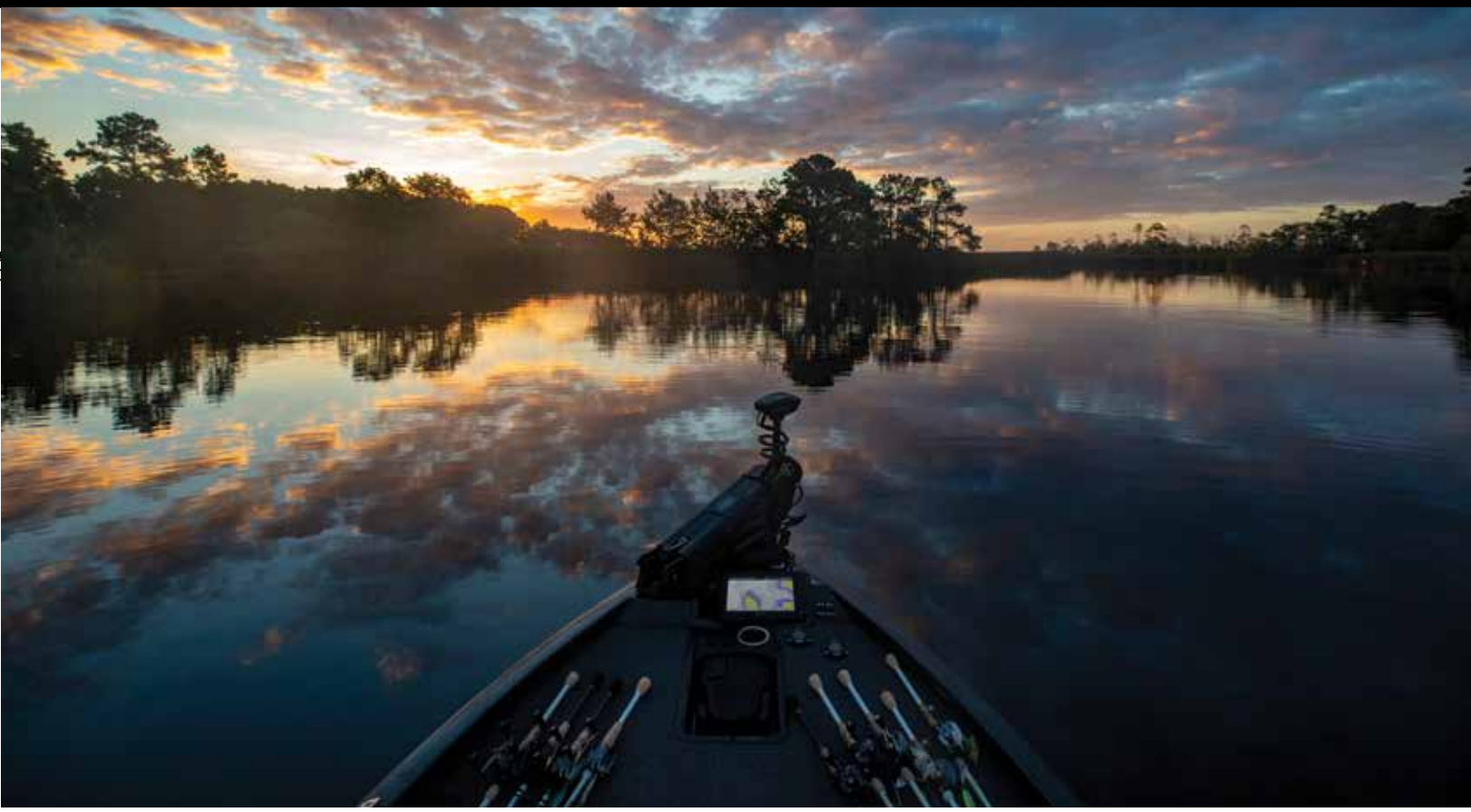
Simple integration with your Garmin chartplotter via a wireless connection makes using the built-in autopilot easy. Create routes to your favorite waypoint, and follow tracks while you fish.



The Force Pro Trolling Motor comes with an integrated transducer with CHIRP traditional and Ultra High-Definition ClearVü and SideVü scanning sonars with imperceptible sonar noise interference.

ADDITIONAL SERIES FEATURES

- Includes the power you need to counter winds and currents with the efficiency to fish all day
- Wireless chartplotter integration and built-in autopilot get you to fish, along with anchor lock to stay on them
- Wireless foot pedal provides instant control and responsiveness; feels and steers like a cable-steered pedal
- Includes integrated CHIRP traditional and Ultra High-Definition ClearVü and SideVü scanning sonars with imperceptible sonar noise interference
- Floating remote control gives you full control of the trolling motor and simple point-and-go gesture steering





WIRELESS FOOT PEDAL

Part no. : 010-12834-00

Enjoy the convenience of a wireless foot pedal. It provides instant control and responsiveness yet feels and steers just like a cable-steered pedal. It operates wirelessly using AA batteries, or — if you prefer — it can be hardwire installed.



REMOTE CONTROL

Part no. : 010-12833-00

The included handheld remote control with a sunlight-readable, transflective display offers total control of the trolling motor from anywhere on your boat along with unique point-and-go gesture steering capabilities. There are also user-programmable keys on the remote, which you can use for control of your chartplotter. No need to worry if the remote takes a trip overboard, because it's water-resistant, and it floats.

FORCE™ CURRENT TROLLING MOTOR

The legendary performance of Force trolling motors is now available for your kayak.

The brushless Force Current trolling motor was purpose-built for kayak anglers looking for a rugged propulsion system with superior maneuverability. Keep an eye on your integrated chartplotter and fish without setting the rod down — with wireless steering and throttle pedals included with select bundles — or use the handheld remote for gesture steering. Get on and off the water fast with simple and intuitive installation and removal. Turn quickly with full thrust available in any direction. Once you find the action, stay put with precise anchor lock technology. Use your chartplotter to create routes for the trolling motor to follow or navigate to a waypoint while you fish. The stern-mounted design uses the industry-standard, 4-hole mounting pattern for easy installation. Prioritize your safety on the water with the included wireless man overboard tag, which cuts off the motor if you fall overboard. Fish with force with a trolling motor that combines advanced features and practical solutions for the modern kayak angler.



Force Current with Power Steer Foot Pedals - Part no. 010-02864-00
Force Current - Part no. 010-02864-10

CHARTPLOTTER INTEGRATION



Simple integration with your Garmin chartplotter via a wireless connection makes using the built-in autopilot easy. Create routes to your favorite waypoint and follow tracks while you fish.

ADDITIONAL SERIES FEATURES

- Includes the power you need to counter winds and currents with the efficiency to fish all day
- Wireless chartplotter integration and built-in autopilot get you to fish, along with anchor lock to stay on them
- Reduce clutter on deck; the throttle and steering pedals connect wirelessly to the motor and are designed to accommodate a wide variety of installation methods
- Floating remote control gives you full control of the trolling motor and simple point-and-go gesture steering





OPTIONAL FOOT PEDALS

Part no. : 010-13307-00

Power steer pedals connect wirelessly to the motor to reduce clutter on the deck. This all-in-one steering and throttle solution allows you to fish, troll, cast and fight without ever setting the rod down. Programmable pedal buttons give you quick access to key features such as anchor lock, heading hold and more. Included with select bundles.

REMOTE CONTROL

Part no. : 010-12833-00

The included handheld remote control with a sunlight-readable, transflective display offers total control of the trolling motor along with unique point-and-go gesture steering capabilities. There are also user-programmable keys on the remote, which you can use for control of your chartplotter. No need to worry if the remote takes a trip overboard, because it's water-resistant, and it floats.

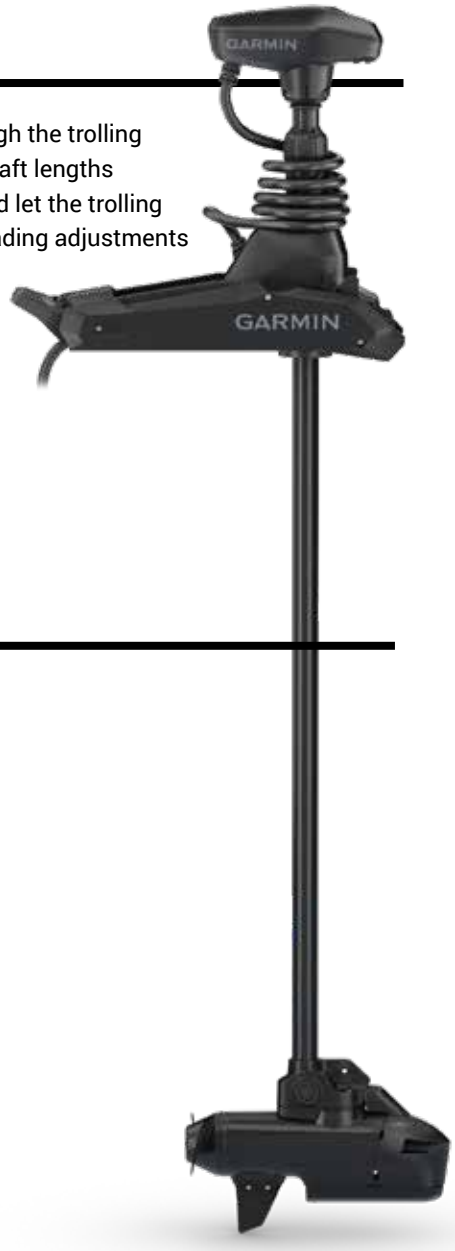


FORCE® KRAKEN TROLLING MOTOR

With its extended shaft lengths, pivot-style mount and top-rated 100 lbs of thrust (in compliance with ISO standard 13342), Force Kraken is a powerful new addition to the Garmin trolling motor lineup. Designed for deep V hulls and deck configurations where bow space is limited, the Force Kraken gives you the power you need for boat maneuverability in high winds or strong current — plus the run-time efficiency to stay out on the water longer. Get a clear view of what's below your boat with the available GT56 transducer[1]. Then, once you've found the spot, stay put with our most precise anchor lock technology.

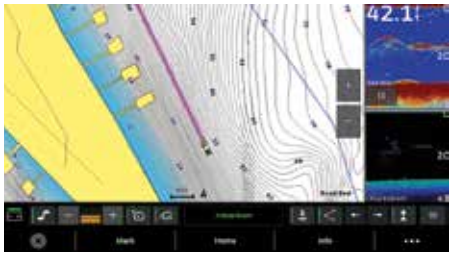
MORE FEATURES, MORE FLEXIBILITY

LiveScope™ live sonar (sold separately) is easy to add, thanks to the ability to run the cable through the trolling motor shaft. The sturdy pivot-style mount frees up space on the deck, and the 63", 75" and 90" shaft lengths accommodate boats with high freeboards. Draw a route with wireless chartplotter integration, and let the trolling motor automatically navigate the route while you fish. The included remote makes speed and heading adjustments easy from anywhere on the boat. Plus, it's saltwater-rated for advanced corrosion protection.

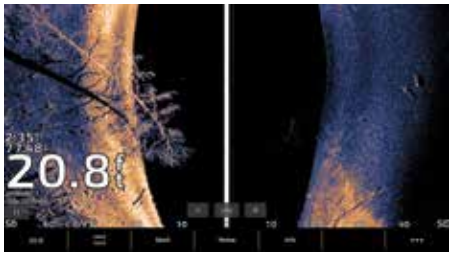


Force Kraken Trolling Motor 48", Black with GT56 xdrc - Part no 010-02573-30
Force Kraken Trolling Motor 48", White without xdrc - Part no 010-02574-30
Force Kraken Trolling Motor 63", Black with GT 56 xdcr - Part no. 010-02573-00
Force Kraken Trolling Motor 63", White without xdcr - Part no. 010-02574-00
Force Kraken Trolling Motor 75", Black with GT 56 xdcr - Part no. 010-02573-10
Force Kraken Trolling Motor 75", White without xdcr - Part no. 010-02574-10
Force Kraken Trolling Motor 90", Black without xdcr - Part no. 010-02573-20
Force Kraken Trolling Motor 90", White without xdcr - Part no. 010-02574-20
Force Kraken Trolling Motor 110", White without xdcr - Part no. 010-02574-40
Force Kraken Trolling Motor 110", Black without xdcr - Part no. 010-02574-41

CHARTPLOTTER INTEGRATION



Wireless integration with your Garmin chartplotter allows you to create routes, patterns and tracks for the trolling motor to follow while you fish.



An integrated GT 56 transducer is available with black versions of the trolling motor, providing brilliant Ultra High-Definition sonar with virtually imperceptible electrical noise interference.





[1]GT56 transducer comes with the black versions of the trolling motor only

ADDITIONAL SERIES FEATURES

- One of the most powerful trolling motors on the market, the Force Kraken's 100 lbs. of thrust are more than strong enough to counter winds and currents
- Anchor lock provides our most precise boat positioning, thanks to multi-band GPS and integrated AHRS for heading hold
- Sturdy composite shaft is built to endure harsh marine environments
- Efficient brushless motor design is optimized to operate in rough, open-water conditions at either 24 or 36 volts
- Included remote control device allows you to use point-and-go gesture steering to control the trolling motor — and it floats
- Brushless motor design produces minimal electronic interference for clear sonar returns

INCLUDED REMOTE CONTROL

Part no. : 010-12833-00

For hands-freeing convenience, the included remote control with sunlight-readable display lets you control the trolling motor from anywhere on your boat, using its unique point-and-go gesture steering capabilities. Programmable keys on the device can be used to control your chartplotter. And for extra peace of mind, the remote will float if it's ever dropped overboard.



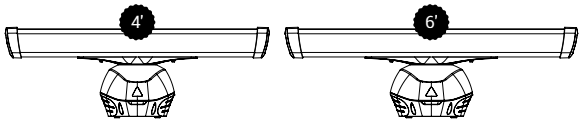


RADAR



GMR FANTOM™ RADARS





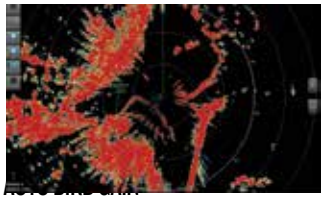
GMR FANTOM™ 254/256 SERIES

With up to 250 watts of power, GMR Fantom™ solid-state radars use MotionScope™ technology to detect and highlight moving targets in different colors, which helps you avoid potential collisions, find flocks of birds and track weather. Their Pulse Compression technology provides high-resolution imaging and maximizes energy to help you detect and identify targets. True Echo Trails gives you a fading trail on moving targets while accounting for the movement of your boat. Auto Bird Gain helps you identify flocks of birds on the water. GMR Fantom radars have a detection range up to 96 nautical miles.

SPECIAL FEATURES

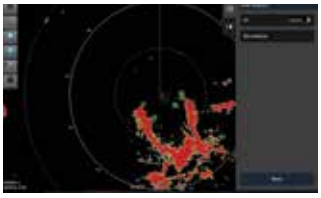
MOTIONSCOPE TECHNOLOGY

Detect and highlight moving targets in different colors to help avoid collisions, find flocks of birds and track weather from 20' to 96 nautical miles.



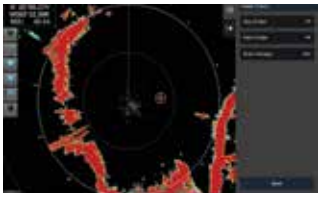
AUTOMATIC MARPA ACQUISITION

Enables automatic triggering and tracking of up to 30 MARPA traffic targets with no user prompting required.



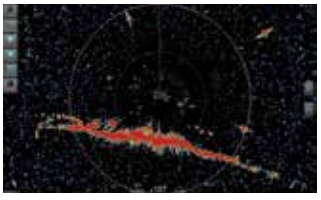
SCAN-TO-SCAN AVERAGING

This technology aids in the reduction of sea clutter and interference, so you have a clear view of what's out there.



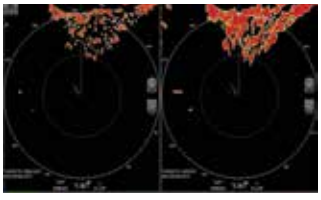
AUTO BIRD GAIN

Where there are birds on the water's surface, there are often fish below it. Auto Bird Gain helps you locate flocks of birds at the water's surface.



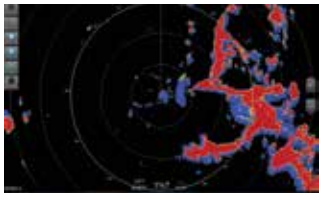
PULSE COMPRESSION

This feature provides high-resolution imaging while maximizing energy to enhance target detection and identification.



ECHO TRAILS

The radar's True Echo Trails feature displays a historical "trail" on the screen to help you quickly identify moving targets.



THE LINEUP

Wattage	
Dome Dimension	
Open Array	
Dynamic Auto Gain and Sea Filter Settings	
Target Size Adjustment	
MARPA Target Tracking	
Dual Radar Support	
Guard Zone	
RPM	
Beam Width	
Minimum Range	
Maximum Range	

GMR FANTOM™ RADARS





GMR Fantom radars feature MotionScope™ technology, which uses the Doppler effect to detect and highlight moving targets to help you avoid potential collisions, find flocks of birds and track weather. These radars fully integrate with select Garmin chartplotters.

FEATURED — GMR FANTOM™ 18X/24X

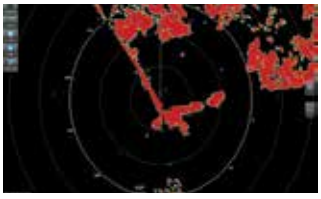
MOTIONSCOPE TECHNOLOGY

PULSE COMPRESSION TECHNOLOGY

TRUE ECHO TRAILS HELP YOU QUICKLY IDENTIFY MOVING TARGETS IN RELATION TO YOUR BOAT

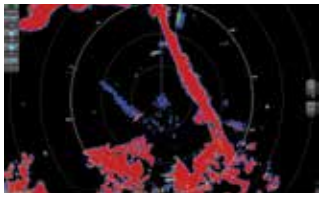
MARPA AUTOMATIC ACQUISITION ALLOWS FOR TRIGGERING AND TRACKING WITH NO USER PROMPTING

MOTIONSCOPE



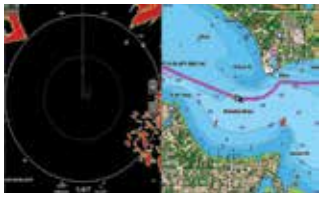
MotionScope technology highlights moving targets so you can navigate around other boats or severe weather — or toward birds feeding at the surface.

ECHO TRAILS



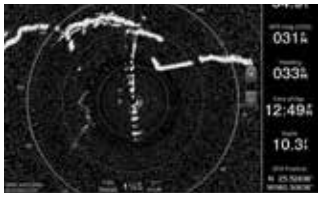
Echo Trails leave a historical "trail" on the screen to help you quickly identify moving targets.

DUAL RANGE WITH OVERLAY



Dual range overlays show close and long-range, split-screen screen images at the same time.

AUTO BIRD GAIN



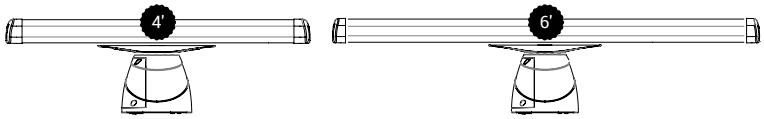
Auto Bird Gain helps locate flocks of birds at the water's surface where baitfish are also likely to be found.

GMR Fantom 18X	GMR Fantom 24X	GMR Fantom 54	GMR Fantom 56	GMR Fantom 124	GMR Fantom 126	GMR Fantom 254	GMR Fantom 256
010-00959-00	010-00960-00	K10-00012-17	K10-00012-18	K10-00012-08	K10-00012-08	K10-00012-22	K10-00012-22
50	50	50	50	120	120	250	250
20" dia., 9.8" high	25.4" dia., 9.8" high						
		4'	6'	4'	6'	4'	4'
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
Yes[1]	Yes[1]	Yes[1]	Yes[1]	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
24/48/60	24/48/60	24/48	24/48	24/48	24/48	24/48	24/48
5.2° horizontal, 25° vertical	3.7° horizontal, 25° vertical	1.8° horizontal, 23° vertical	1.25° horizontal, 23° vertical	1.8° horizontal, 23° vertical	1.25° horizontal, 23° vertical	1.8° horizontal, 23° vertical	1.25° horizontal, 23° vertical
6 meters	6 meters	6 meters	6 meters	6 meters	6 meters	6 meters	6 meters
48 nm	48 nm	72 nm	72 nm	96 nm	96 nm	96 nm	96 nm

[1]Requires heading sensor; sold separately

GMR™ XHD3 OPEN-ARRAY RADARS





Designed for serious seafaring on yachts and sport fishing boats, these robust 4' and 6' open-array radars incorporate the latest Garmin magnetron technology to deliver high-definition imaging at all ranges for superior weather, obstacle and traffic detection. Antennas are built to withstand harsh conditions with a 100-knot commercial grade wind rating[1].

FEATURED — GMR XHD3 SERIES

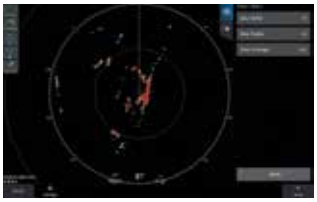
CHOOSE 4, 12 OR 25 KW OF POWER OUTPUT FOR UP TO 96 NAUTICAL MILE RANGE

ADVANCED SCAN AVERAGING TECHNOLOGY FILTERS OUT SEA CLUTTER

PULSE EXPANSION MAXIMIZES ENERGY ON TARGET

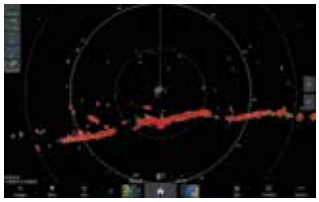
OVERLAY RADAR ONTO CHART SCREEN AS A SINGLE DISPLAY OR SPLIT SCREEN WITH INDEPENDENT RANGE SETTINGS

SCAN AVERAGING



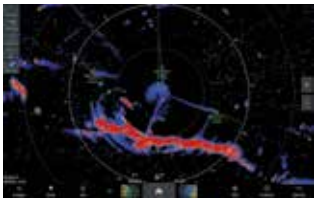
A first for Garmin magnetron radar, scan averaging helps filter out sea clutter and interference to enhance the detection and display of consistent targets.

ANGULAR TARGET SIZE ADJUSTMENT



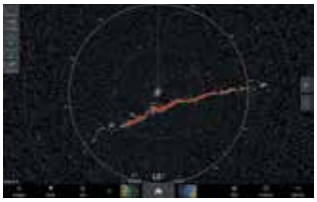
Advanced image processing helps improve object shapes on-screen to optimize target interpretation at all range scales.

TRUE ECHO TRAILS



A historical "trail" of boats on the water is displayed on the screen, removing relative motion influence to help you quickly identify moving targets and potential collision threats.

AUTO BIRD GAIN AND BIRD MODE



Use these features to help locate flocks of birds at the water's surface where baitfish are also likely to be found.

THE LINEUP

	GMR 434/436 XHD3 K10-00012-24 / K10-00012-25	GMR 1234/1236 XHD3 K10-00012-26 / K10-00012-27	GMR 2534/2536 XHD3 K10-00012-28 / K10-00012-29
Transmit Power	4 kW	12 kW	25 kW
Dimensions (diameter)	1938 mm (GMR 436) 1325 mm (GMR 434)	1938 mm (GMR 1236) 1325 mm (GMR 1234)	1938 mm (GMR 2536) 1325 mm (GMR 2534)
Rotation Speed (revolutions/min)	24 and 48	24 and 48	24 and 48
Weight	29.6 kg (GMR 436) 27.6 (GMR 434)	29.7 kg (GMR 1236) 27.7 (GMR 1234)	30.4 kg (GMR 2536) 28.4 (GMR 2534)
Horizontal Beamwidth	1.1° (GMR 436) 1.8° (GMR 434)	1.1° (GMR 1236) 1.8° (GMR 1234)	1.1° (GMR 2536) 1.8° (GMR 2534)
Vertical Beamwidth	23°	23°	23°
Maximum/Minimum Range	72 nautical miles / 20 meters	96 nautical miles / 20 meters	96 nautical miles / 20 meters
Waterproof According to Standard	IPX6	IPX6	IPX6
Power Supply	11-32 V	10-32 V	10-32 V
Power Consumption (typical)	55 W	70 W	70 W
Power Consumption (standby)	18 W	18 W	18 W
Temperature Range	-25 to 55 C	-25 to 55 C	-25 to 55 C
Guard Zone with Alarm	Yes	Yes	Yes
Cable Length	15 meters	15 meters	15 meters
Polarization	Horizontal	Horizontal	Horizontal
Trails	True	True	True
Dual Range	Yes	Yes	Yes

[1]4-kW versions require optional equipment (sold separately) for 100-knot wind rating

GMR™ XHD3 DOME RADARS







Loaded with advanced features typically found on open arrays, these 4-kW magnetron radars — in 18" or 24" sizes — bring high-definition imaging and fast target updates to boaters who want a quiet, compact dome radar for cruising or fishing offshore. Scan averaging, a first for Garmin magnetron radar, results in reduced sea clutter and interference on the display.

FEATURED — GMR XHD3 SERIES

- 4 KW OF POWER OUTPUT FOR UP TO 48 NAUTICAL MILE RANGE
- ADVANCED SCAN AVERAGING TECHNOLOGY FILTERS OUT SEA CLUTTER
- ROTATION SPEEDS UP TO 60 RPM FOR FAST REDRAW RATES
- DUAL-RANGE OVERLAYS SHOW CLOSE AND DISTANT RADAR IMAGES WITH SPLIT-SCREEN VIEW

THE LINEUP

	GMR 24 XHD3 010-02842-00	GMR 18 XHD3 010-02841-00	GMR 18 HD3 010-02843-00
4 kW Transmit Power	•	•	•
Dual Range	•	•	
Radar Overlay Support	•	•	•
Power Consumption	40 W typical	40 W typical	40 W typical
Power Input	11-32 V DC	11-32 V DC	11-32 V DC
RPM	Up to 60 rpm, depending on settings	Up to 60 rpm, depending on settings	24
Beam Width	3.7° horizontal, 25° vertical	5.2° horizontal, 25° vertical	5.2° horizontal, 25° vertical
Trails	True	True	No
Minimum Range	20 meters	20 meters	20 meters
Maximum Range	48 nautical miles	48 nautical miles	36 nautical miles

GMR™ HD3 DOME RADARS

For high-performance scanning at an entry-level price, the 18" GMR™ HD3 dome radars are designed for mariners who want to make the most of their time on the water. These robust 4-kW magnetron radars offer reliable target detection to maximize situational awareness in low-visibility conditions.

- 4 KW OF POWER OUTPUT FOR UP TO 36 NAUTICAL MILE RANGE
- DUAL RADAR SUPPORT FOR ADDED REDUNDANCY
- 48 OR 24 RPM ROTATION SPEEDS
- DYNAMIC AUTO GAIN ADJUSTS TO CONDITIONS





INSTRUMENTS

GNX™ 130 AND 120



GNX™ 130 Part no: 010-01396-00

GNX™ 120 Part no: 010-01395-00

Designed for serious sailors who demand quality, precision and total integration. This high-precision glass-bonded 10” or 7” large format instrument creates a beautiful “glass mast” display with superior readability in all conditions, day and night, with no fogging.

- HIGH-PRECISION GLASS-BONDED BACKLIT LCD DISPLAY AVOIDS FOGGING
- DIGITS ARE THE LARGEST DIGITS IN CLASS
- DISPLAYS MORE THAN 50 SAILING AND BOAT PARAMETERS
- ALLOWS SEAMLESS SHARING OF SAILING DATA BETWEEN GARMIN DEVICES



Boat speed and VMG



Heading



Depth



True wind angle and true wind speed

GNX KEYPAD

Part no: 010-12255-00



Control the GNX 120 or GNX 130 from a distance with this optional push-button keypad interface that can be mounted near the helm. Preset four buttons to dedicated configurations. Even adjust the background lighting of all displays with the touch of a button.

GNX 120 MAST BRACKETS

Part no: 010-12236-00 (2 units), 010-12236-01 (3 units), 010-12236-02 (4 units)



Flat mount the GNX 120 display for a beautiful glass mast look using our carbon fiber mast brackets. Choose from three mast bracket options – 2, 3, or 4 units.

INSTRUMENTS

GNX™ WIND
Part no: 010-01142-30



A superb addition for all sailboats, GNX Wind features a high-visibility, glass-bonded backlit LCD display with customizable colors. Shows two data fields and a digital wind rose simultaneously to display true and apparent wind data, steering guidance, boat speed and more. It also offers 15 important marine parameters for wind, speed, navigation and customizable profiles and other configurations.

GNX™ 21 & 20
GNX 20 Part no: 010-01142-00 / GNX 21 Part no: 010-01142-10



Perfectly designed marine instrumentsfor both sailboats and power vessels, they're easy-to-read, clearly showing depth, speed, wind and 50 additional marine and vessel parameters. Preset auto-scroll function automatically cycles between screens.

GMI™ 20
Part no: 010-01140-00



The GMI 20 has a 4" color screen that displays depth, speed, wind, engine information and over 100 marine and vessel specific parameters based on your preference. Its glass-bonded finish lens resists fogging and increases contrast. Other features include a dedicated race timer that counts both down and up, with an internal beeper.

TD50
Part no: 010-02139-10



Extra touchscreens let you easily connect with your boat systems, sensors and media for supplementary control, switching and data monitoring from virtually any suitable mounting location on board. Wherever you need some extra system access on board, the 5" TD 50 touchscreen fits the need.

WIND TRANSDUCERS



Garmin gWind™ sensors feature a 3-bladed propeller and twin-fin design for more accurate True Wind Speed (TWS) in lighter air and more stable True Wind Angle (TWA).

The GND 10 black box interface (part no. 010-01227-00) seamlessly integrates Nexus instruments and sensors with the Garmin family. It converts data between the Nexus Network and NMEA 2000 to provide compatibility between Nexus and Garmin products, including gWind™, gWind™ Wireless and gWind™ Race transducers. Simple plug-and-play installation between Nexus and NMEA 2000, with USB connectivity, eliminates the need for user setup and system configuration.

GWIND™ TRANSDUCER

Part no: 010-01227-00



Features twin-fin technology with 3-bladed propeller for more accurate True Wind Speed in lighter air while the twin-fin design gives a more stable True Wind Angle. Includes a GND 10 black box.

GWIND WIRELESS 2 TRANSDUCER

Part no: 010-01616-00



An easy-to-install solution that eliminates running wires through masts up to 50 feet. Accurate wind signals are sent via an ANT® connection directly to a GNX™ Wind instrument or compatible Garmin GPSMAP® series chartplotters[1]. Solar panel mounted on the transducer arm provides power to the internal solar-charged battery that lasts 3 years and is easily replaced.

GWIND RACE TRANSDUCER

Part no: 010-01228-00



Designed for racing sailboats, the gWind Race features a 3.3 feet (1 meter) straight pole that raises the transducer above the mast to remove turbulence errors. Includes a GND 10 black box.

INSTRUMENT PACKS

GNX WIRELESS WIND PACK
Part no.: 010-01616-10

GNX Wind and gWind Wireless 2.



GNX WIRELESS SAIL PACK 52
Part no.: 010-01616-40

GNX Wind, GNX 20, gWind Wireless 2 and DST810 (depth, speed & temperature).



GNX WIRELESS SAIL PACK 43
Part no.: 010-01616-30

GNX Wind, GNX 20, gWind Wireless 2, GST 43 (speed and temperature), GDT 43 (depth & temperature) and NMEA 2000 adapters.



GNX WIRED SAIL PACK 43
Part no.: 010-01248-60

GNX Wind, GNX 20, gWind, GST 43 (speed and temperature), GDT 43 (depth & temperature) and NMEA 2000 adapters.



GNX WIRED SAIL PACK 52
Part no.: 010-01248-70

GNX Wind, GNX 20, gWind, GND 10 and DST810 (depth, speed & temperature).



GMI WIRED START PACK 52
Part no.: 010-01248-80

GMI 20, gWind, GND 10 and DST810 (depth, speed and temperature).



SAILASSIST

To improve your sailing experience, GPSMAP® series chartplotters include special preloaded sailing features such as laylines, enhanced wind rose, heading and course-over-ground lines, true wind data fields and tide/current/time slider. For sail racing, there are prerace guidance, synchronized race timer, virtual starting line, time to burn and lay line data fields[1].

LAYLINES



View laylines and other critical data right on your chartplotter screen.

PRERACE GUIDANCE



Displays high-resolution depth range shading for up to 10 depth ranges, so you can view your designated target depth.

WIND GRAPHS



Clear graphs of true wind direction, apparent wind angle, true wind speed and apparent wind speed.

POLAR TABLE DATA



Support for polar table file handling enables your Garmin chartplotter to calculate the optimal wind angle for your sailboat to achieve its highest speed.

NORTH-UP / COURSE-UP COMBO



Set up a dual navigation chart combo showing north-up and course-up orientations. This simultaneous viewing enhances awareness for course direction and a broader positional location.

SAILING AUTO RESPONSE



Automatically adjusts the response setting, based on the sea and wind conditions. Response is lowered in calm conditions to prevent an overactive rudder — and it's raised in rough conditions to respond to wind and wave disturbances.



[1]Requires compatible wind transducer (sold separately).

COMMUNICATIONS




Cable Area
0001
Obstn
Wd
Virginia Beach
Wd
Piles
SOS
Biscayne Bay
0.5mi
Sunset
Mark
Info
GARMIN
DSC
H/LO
CLEAR
MENU
NAV/
ANCHOR
PANEL
LIGHT
BILGE
PUMP 1
BILGE
PUMP 2
BILGE
LIGHT

VHF

CORTEX® V1 MARINE RADIO

Part no: 010-02814-20

A revolution in marine communication that will change your VHF experience forever. With an intuitive touchscreen handset engineered for durability, the Cortex V1 is a communications hub that integrates strong, clear audio with the power of AIS collision avoidance — plus remote systems monitoring and control from on board or ashore.



- With up to 85 dBA of crystal-clear audio power, the Cortex V1 system delivers superior sound quality.
- The included Cortex H1 handset offers easy one-hand operation with touchscreen, click-wheel and select keys.
- A built-in SOTDMA AIS transponder proactively warns you of certain collision threats with voiced alerts.
- Quickly initiate digital selective calling direct calls by tapping the AIS boat symbol on the handset's touchscreen.
- Cortex apps let you monitor boat systems, receive alerts and remotely control devices from your compatible smartphone.
- NMEA 2000® networking allows you to view Cortex data on your connected MFDs and chartplotters.

VHF, AIS AND MONITORING

Cortex V1 is an advanced multi-station VHF radio with remote monitoring and control. The Cortex V1 system includes a Cortex M1 hub and Cortex H1 tethered handset. Connect additional Cortex handsets (sold separately) for even more freedom and control on board.

ANCHOR WATCH

Whether you're onboard or ashore, you can know for sure your boat is securely anchored. Cortex smartAIS accurately tracks boat movement, heading and bow position, alerting you if your anchor drags.

NEVER MISS A WORD

The Cortex system's cutting-edge SquelchEQ control is constantly adjusting for optimum listening performance, while its unique omni watch actively listens to all VHF frequency channels simultaneously and records each active channel for a playback period. With Cortex, you'll truly never miss a word.

ONE-TOUCH DSC

Cortex lets you initiate DSC direct calls with other vessels by simply tapping the vessel icon on your handset. Initiate VHF calls to friends from the saved favorites list, nearby vessel directory list or quickly hail another vessel from the collision avoidance situation screen when every second counts.

COLLISION AVOIDANCE

Cortex smartAIS continuously monitors AIS information from other boats and calculates crossing situations, generates collision alarms and provides easy-to-understand avoidance cues. Data from its built-in heading sensor is also broadcast, so other vessels can clearly identify which direction your boat is moving.

VHF VOICE FLEXIBILITY

Connect up to 5 portable and power-tethered style Cortex handsets wirelessly via Wi-Fi® link to the Cortex M1 hub. Keep a portable handset with you for continual VHF communications access from anywhere on your boat.

VHF 115i MARINE RADIO

Part no: 010-02096-01



Essential fixed-mount VHF marine radio with 25-watt transmit power and built-in GPS. Standard Class D digital selective calling (DSC) and easy plug-and-play installation to compatible chartplotters and MFDs via the NMEA 2000® network.

VHF 215i MARINE RADIO

Part no: 010-02097-01



Fixed-mount VHF marine radio with relocatable fist microphone handset. Compatible with GHS 11i Wired VHF Handset. It has 25-watt transmit power with built-in GPS and standard Class D DSC, and easy plug-and-play installation to compatible chartplotters and MFDs via the NMEA 2000® network.

VHF 215i AIS MARINE RADIO

Part no: 010-02098-01



Fixed-mount VHF marine radio with built-in Class B CSTDMA AIS receiver. Easy plug-and-play installation to compatible chartplotters and MFDs to display AIS targets via the NMEA 2000® network. Flexible mounting with relocatable fist microphone handset and compatible with GHS 11i Wired VHF Handset.

VHF 315i MARINE RADIO

Part no: 010-02047-01



Modular black box VHF marine radio with built-in GPS receiver[1]. Includes GHS 11i Wired VHF Handset and active speaker to use as an intercom between up to 3 stations. Connect a 30-watt capable hailer for two-way broadcast and listening. Easy plug-and-play installation to compatible chartplotters and MFDs the NMEA 2000® network.

GHS™ 11i WIRED VHF HANDSET

Part no: 010-01759-01



Full-function wired VHF Handset compatible with VHF 215i, VHF 215i AIS and VHF 315i. Clear 2" display, mounting flexibility using the 32' extension cable from the VHF marine radio and convenient 1' to nearly 5' coiled cable to the handset.

THE LINEUP

	VHF 115i 010-02096-01	VHF 215i 010-02097-01	VHF 215i AIS 010-02098-01	VHF 315i 010-02047-01	Cortex V1 010-02814-20
Display	2.5"	3.2"	3.2"	2"	4" color touch
Intercom	•	Yes (requires GHS 11i)	Yes (requires GHS 11i)	Yes (up to 3 stations)	Yes (one way)
Hailer & Horn	•	Yes	Yes	Yes	Yes
Built-in AIS	•	•	Class B CSTDMA	•	Class B SOTDMA
Compatible Handsets	•	GHS 11i (additional)	GHS 11i (additional)	GHS 11i (additional)	Cortex H1P and H1P (up to 5 direct to Cortex WiFi®)
Channel Scanning	Yes	Yes	Yes	Yes	Yes
Watch	Dual/Tri	Dual/Tri	Dual/Tri	Dual/Tri	Omni
Record/Playback	•	•	•	•	Yes (all channels)
Off-boat Monitoring	•	•	•	•	Yes

[1]VHF 315 requires external antenna (sold separately)

AIS

CORTEX® M1 SMART AIS

Part no: 010-02815-20

The Cortex M1 hub combines advanced collision avoidance technology with proactive alerting plus remote monitoring and control of onboard systems from your compatible smartphone.



- A high-speed Class B SOTDMA smartAIS transponder transmits your boat's location and heading and proactively warns of certain collision threats.
- Features Anchor Watch for anchor drag alerts and receives man overboard beacon transmissions.
- Cortex M1 is VHF-ready. Simply add a Cortex handset (sold separately) for full VHF radio capability.
- Cortex apps let you monitor boat systems, receive alerts and remotely control devices from your compatible smartphone.
- A GPIO port and supplied cable allow you to monitor bilge pumps, security sensors, shore power and more.
- NMEA 2000® networking allows you to view Cortex data on your connected MFDs and chartplotters.

NMEA 2023 Product Award Winner

ANCHOR WATCH

Using actual anchor position from the bow and the Cortex built-in heading sensor, smartAIS tracks boat movement and sounds an alarm if the anchor drags or if there is a change in wind speed, direction or water depth. While on your boat, get alerts on your compatible mobile device via the Cortex Onboard™ app — or via the Cortex Monitor™ app when you're ashore.

REMOTE MONITORING AND CONTROL

Check boat status, receive alerts and control devices with Cortex remote monitoring access using the Cortex Monitor app. Directly connect up to 5 external sensors to your system for added monitoring capability.

COLLISION AVOIDANCE

Cortex M1 is a full Class B SOTDMA transceiver combining GPS, AIS and heading data with smart logic to proactively warn you of certain collision risks with alarms or voice-annunciated alerts that escalate until acknowledged. AIS vessel information (name, bearing and relative position) is continuously provided using AIS information broadcast from other boats.

CORTEX ONBOARD APP

While you're on your boat, the Cortex Onboard app can serve as your primary interface with your Cortex M1 hub, allowing you to monitor boat status, receive alerts, view instrument data and display AIS screens on your compatible smart device.

MAN OVERBOARD

Cortex smartAIS continuously watches for man overboard (MOB) activations, sounding an alarm when it detects one. MOB can be manually activated via the Cortex Onboard app or automatically from an AIS MOB beacon — which launches a track-back mode for quicker retrieval.

NETWORK CONNECTIVITY

Cortex can receive and broadcast information over NMEA 0183 and NMEA 2000® networks, making it compatible with all modern chartplotters and multi-function displays.



AIS™ 800

Part no: 010-02087-00

Increase your situational awareness and confidence on the water with the AIS 800 transceiver. Featuring Class B SOTDMA with 5 watts of transmit power, AIS 800 broadcasts position reports faster with increased speed over regular Class B CSTDMA. Transmit your vessel information to other vessels' AIS receivers in your area so you can be seen. Receive AIS target data from other vessels and plot those on a NMEA 2000® networks chartplotter or multifunction display. An internal VHF antenna splitter allows the VHF and AIS to share a single antenna. A built-in GPS ensures your broadcasted position reports are accurate for other vessels.

- Easy-to-use, reliable communication transmits your vessel information to other AIS receivers in your area while receiving AIS target data
- 5 watts of transmit power with Class B SOTDMA provides faster positioning reporting with increased speed
- Built-in GPS with connector for optional external antenna
- NMEA 2000® connectivity for easy integration with compatible chartplotters and multifunction displays
- Internal VHF antenna splitter allows VHF and AIS to share a single antenna

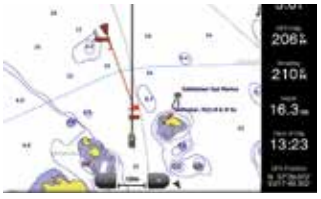
CLASS B SOTDMA

Class B SOTDMA AIS is self-organizing and offers increased benefits over regular Class B CSTDMA. Increased transmission power guaranteed time slot allocation helps ensure your position report is received by other vessels. Transmission rate is also increased when your vessel is traveling at increased speed.

AIS ON YOUR CHART PLOTTER

Cortex® M1 and AIS 800 AIS transceivers feature NMEA 2000®/0183 connectivity for easy integration with compatible chartplotters and multifunction displays. See AIS target vessels in range on your chartplotter.

COLLISION WARNINGS



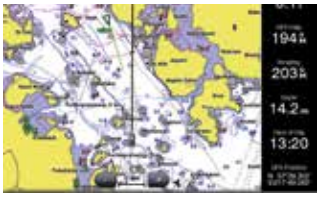
Potential risks are displayed, helping to minimize the risk of collision.

IDENTIFICATION



Sends detailed vessel data, allowing easy identification.

CLEAR OVERVIEW



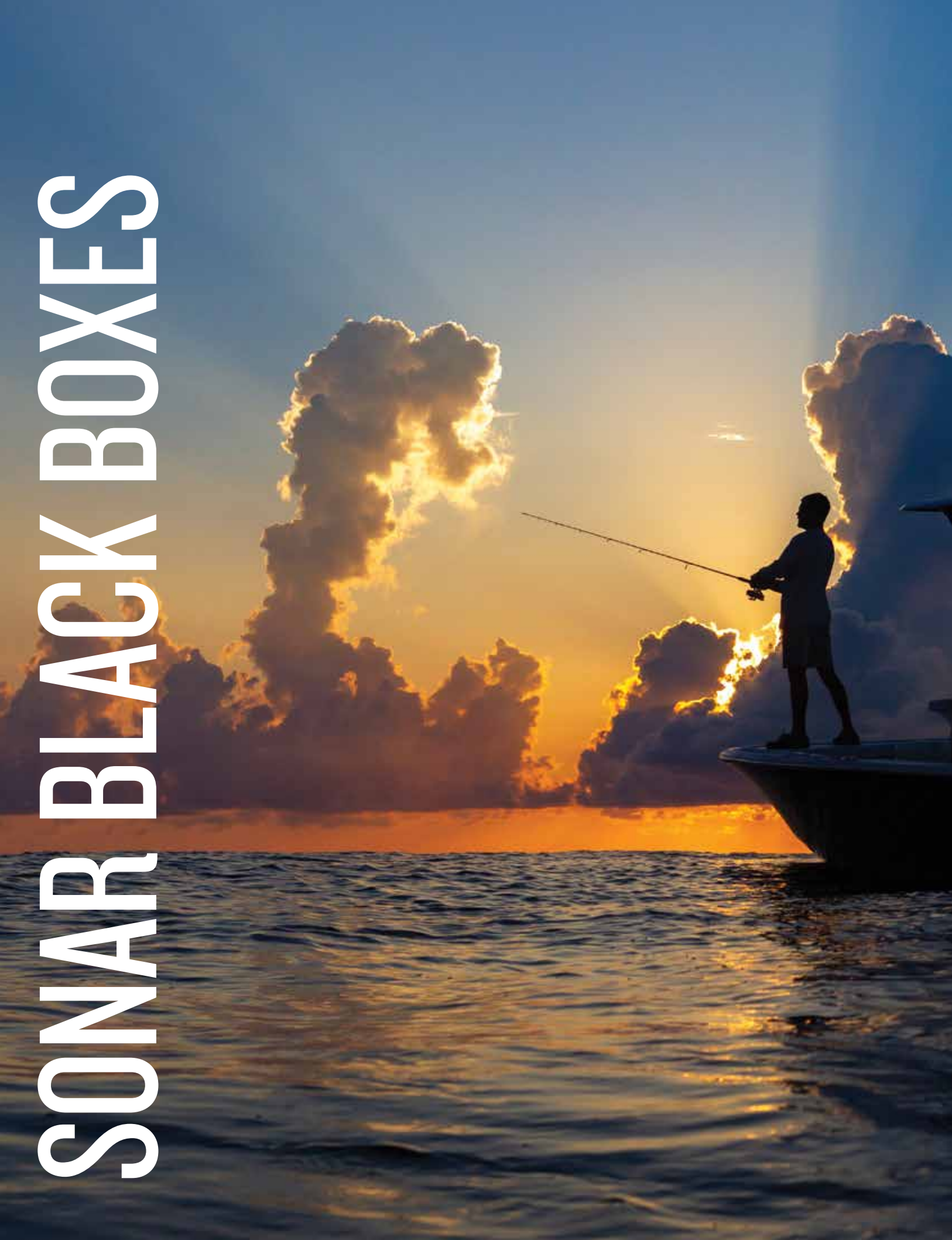
Shows you the surroundings and the vessels around your boat.

SOCIAL SEAMANSHIP



Spot your friends quickly and enjoy direct ship-to-ship communication.

SONAR BLACK BOXES





SONAR BLACK BOXES

GSD 28
Part no: 010-02797-00



High-powered sonar black box engineered for superior sport fishing at extreme depths. Features next-generation xCHIRP sonar technology that provides our clearest fish arches for excellent target separation, smooth bottom returns and precise targeting down to 10,000'

GSD 25
Part no: 010-01159-00



The GSD 25 premium 1 kW CHIRP traditional sonar module is a remote network solution that provides outstanding fish-finding and bottom tracking capabilities with CHIRP ClearVü and CHIRP SideVü scanning sonar.

GSD 24
Part no: 010-00957-00



With up to 2,000 Watts of transmit power and a high-dynamic range receiver, the GSD 24 brings high-definition, dual-frequency imaging to your compatible Garmin chartplotter.

GCV™ 20
Part no: GCV 20: 010-00958-00, GCV 20 w/ xdcr GT34UHD: 010-02055-00



The Garmin GCV 20 Ultra High-Definition black box sonar adds both SideVü and ClearVü with CHIRP scanning sonar technology to your compatible Garmin chartplotter.

THE LINEUP

	GSD 28	GSD 25	GSD 24	GCV 20
Garmin Marine Network Ports	1 Garmin BlueNet™	1	1	3
Frequencies Supported	Dual Channel CHIRP. 25-250 kHz (dependent on transducer)	Traditional: 50/200, 77/200, 83/200 Single Channel CHIRP. 40-250 Dual Channel CHIRP. 40-250 SideVü/ClearVü: CHIRP 455/800 and CHIRP 260/455 (dependent on transducer)	50/200 kHz	Ultra High-Definition ClearVü: 0.8 MHz (800 kHz), CHIRP range: 760-880 kHz Ultra High-Definition SideVü: 1.2 MHz (1,200 kHz), CHIRP range: 1,060-1,170 kHz
Transmit Power	300w-3kW rms (dependent on transducer)	1 kW	25-2,000 W rms	500 W rms
ClearVü/Sideü		•		•
Max Depth	10,000 ft (3,048 m)	5,000 ft. (1,524 m)	5,000 ft. (1,524 m)	200' Ultra High-Definition ClearVü 125' to each side Ultra High-Definition SideVü, 250' total, at a maximum depth of 30'
Traditional CHIRP capable	•	•		
Power Input	10-35 V	10-35 V	10-35 V	10-35 V
Power Usage	120 W maximum	27 W maximum	40 W maximum	10.5 W maximum
Compass-safe distance	23.6 in. (60 cm)	11.8 in. (30 cm)	15.75 in. (40 cm)	10.2 in. (26 cm)

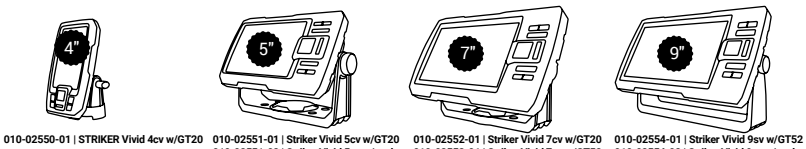




FISHFINDERS

STRIKER™ VIVID SERIES





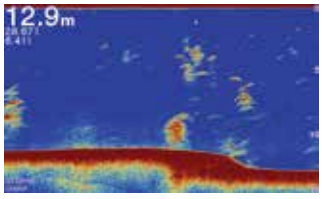
010-02550-01 | STRIKER Vivid 4cv w/GT20
010-02551-01 | Striker Vivid 5cv w/GT20
010-02551-02 | Striker Vivid 5cv w/o xdcr
010-02552-01 | Striker Vivid 7cv w/GT20
010-02553-01 | Striker Vivid 7sv w/GT52
010-02553-02 | Striker Vivid 7sv w/o xdcr
010-02554-01 | Striker Vivid 9sv w/GT52
010-02554-02 | Striker Vivid 9sv w/o xdcr

See fish and structure in colorful detail with the easy-to-use STRIKER™ Vivid Series fishfinders. Available in screen sizes ranging from 4" to 9", these devices feature high-contrast color palettes with support for traditional and scanning sonar capabilities to make it easier to see what's beneath the surface. Built-in high sensitivity GPS lets you mark your favorite fishing spots and easily navigate back to them.

FEATURED — STRIKER PLUS 7SV

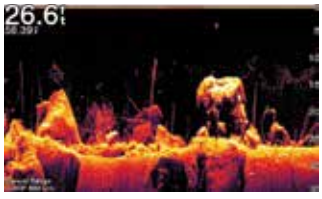
- BRIGHT, SUNLIGHT-READABLE SCREEN WITH VIVID SCANNING SONAR COLOR PALETTES
- AVAILABLE WITH TRANSDUCER FOR CHIRP TRADITIONAL, CLEARVÜ AND SIDEVÜ SCANNING SONAR
- BUILT-IN GPS LETS YOU MARK WAYPOINTS, CREATE ROUTES AND VIEW BOAT'S SPEED
- INCLUDES BUILT-IN QUICKDRAW CONTOURS MAPPING

CHIRP TRADITIONAL



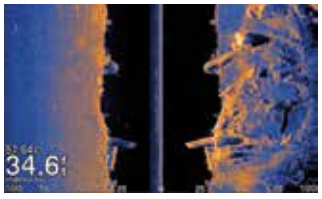
Crisp, clear CHIRP traditional sonar.

CLEARVÜ SCANNING SONAR



See images of what's under your boat.

SIDEVÜ SCANNING SONAR



Get incredibly clear images of what's off to either side of your boat.

QUICKDRAW CONTOURS MAPPING



Create and store maps as you fish with 1' contours for up to 2 million acres.

THE LINEUP

	STRIKER 4	STRIKER Plus 4	STRIKER Vivid 4cv	STRIKER Vivid 5cv	STRIKER Vivid 7cv	STRIKER Vivid 7sv	STRIKER Vivid 9sv
	010-01550-01	010-01870-01	010-02550-01	010-02551-01	010-02552-01	010-02553-01	010-02554-01
Built-in GPS	•	•	•	•	•	•	•
Quickdraw Contours		•	•	•	•	•	•
Garmin CHIRP Traditional[1]	•	•	•	•	•	•	•
CHIRP ClearVü[1]			•	•	•	•	•
CHIRP SideVü[1]						•	•
Built-in Wi-Fi®					•	•	•
ActiveCaptain® App Compatible[1]					•	•	•
Transducer and Mounts Included	•	•	•	•	•	•	•

STRIKER™ CAST



Why guess where to find fish? See exactly where they're hiding with the durable STRIKER™ Cast series castable sonars. Just download the STRIKER Cast app, pair your mobile device with the sonar, and go fishing in minutes. Cast from shore, dock or watercraft, and reel back in to locate and display fish, wirelessly streaming sonar up to 200' to your smartphone or tablet.

010-02246-02 | STRIKER Cast, GPS
010-02246-00 | STRIKER Cast, Non GPS

STREAMS LIVE SONAR

PAIR WITH STRIKER CAST APP, FOR IOS AND ANDROID

UP TO 200' SONAR RANGE

10+ HOURS BATTERY LIFE[1]

SCAN FISH BY PHONE



Wirelessly stream sonar to view fish and structure up to 200' in any direction via the STRIKER™ Cast app on your smartphone or tablet.

SELECTABLE MODES



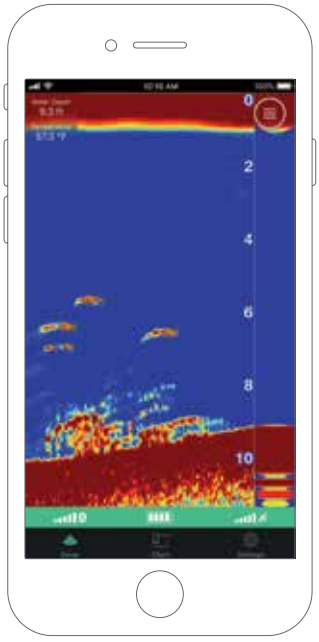
Choose your views from easy-to-interpret traditional 2-D sonar and ice fishing flasher modes, with setting adjustments for gain, range and more.

QUICKDRAW CONTOURS



GPS model offers waypoint marking and Quickdraw Contours, letting you create and save your own fishing maps with 1' contours.

FISH ICONS



Turn on fish icons to view graphic images of fish targets and their depth readings, so you'll know exactly where to drop your line.

[1]Battery life may vary depending on usage


GARMIN



AUTOPILOTS



GHP™ REACTOR 40 AUTOPILOT SERIES



Reactor™ 40 hydraulic autopilot keeps you on course at cruising speeds, minimizes heading error, reduces power consumption and more, so you can be more comfortable while cruising. Solid-state 9-axis Attitude Heading Reference System (AHRS) sensors provide reliable vessel control in all sea and weather conditions and consistent heading accuracy within 2 degrees. Our Shadow Drive™ technology lets you easily take back control of the helm just by turning the wheel — automatically disengaging the autopilot. It's easy to control from your compatible Garmin chartplotter, and Reactor 40 can follow auto-guided routes[1] with compatible chartplotters and Garmin Navionics+™ and Garmin Navionics Vision+™ cartography. Flexible mounting options[2] and quick, easy commissioning make installation easier. For boats without a good, clean magnetic location to mount the CCU, Reactor 40 also supports heading inputs from third-party NMEA 2000® sensors such as GPS compas

NMEA 2023 Product Award Winner

ADDITIONAL SERIES FEATURES

- 9-axis Attitude Heading Reference System (AHRS) sensors provide reliable vessel control in all sea and weather conditions and consistent heading accuracy within 2 degrees
- Shadow Drive™ technology automatically disengages the autopilot when you turn the wheel
- Control the autopilot directly from the screen of your compatible chartplotter
- Access Auto Guidance+[1] with compatible chartplotters and Garmin Navionics+™ and Garmin Navionics Vision+™ cartography
- Supports third-party heading sensors or GPS compasses via the NMEA 2000® network

ACCESSORIES FOR REACTOR AUTOPILOTS



GHC™ 50 CONTROL UNIT
Part no: 010-02731-00

With its 5" WVGA edge-to-edge glass touchscreen interface and both wireless and wired control options, the GHC 50 autopilot instrument is styled to match the latest GPSMAP® premium chartplotters. It's powered by the NMEA 2000 network for seamless connectivity with Garmin MFDs and other units on your vessel.



REACTOR™ AUTOPILOT REMOTE
Part no: 010-12833-10

The ultimate in onboard freedom and convenience all in the palm of your hand. Bright color display and new gesture controls let you course-correct with ease.



GRF 10 RUDDER SENSOR
Part no: 010-11829-00

Pair this GRF 10 rudder feedback sensor with your autopilot to provide rudder position feedback to detect and avoid rudder stops.



GNA 10 JOG LEVER ADAPTER
Part no: 010-13007-00

Use the GNA 10 to connect a jog lever to Reactor 40 autopilots on displacement hull work boats or trawlers. Adjust heading hold with the jog lever or access Power Steering mode to move the rudder without autopilot guidance.

[1] Do not install or store the sensor near strong magnets, including speakers
[2] Auto Guidance is for planning purposes only and does not replace safe navigation operations

GHP™ REACTOR 40 STEER-BY-WIRE AUTOPILOT

These corepacks bring our GHP Reactor 40 autopilot technology to vessels with select steer-by-wire control systems, including Yanmar® Electric Power Steering for the JC10 Joystick system, Teleflex® Optimus™ systems, Yamaha® Helm Master™ systems, Volvo Penta® Inboard Performance Systems and ZF® 2800 Pod Drive steerings systems.



GHP REACTOR 40 STEER-BY-WIRE STANDARD COREPACK
Part no: 010-02794-03



GHP REACTOR 40 STEER-BY-WIRE YAMAHA® HELM MASTER™ COREPACK
Part no: 010-02794-04



GHP REACTOR 40 STEER-BY-WIRE VOLVO PENTA® COREPACK
Part no: 010-02794-06

ADDITIONAL SERIES FEATURES

- Solid-state 9-axis AHRS, reacts to the sea to hold course, even when the boat is unstable
- Standard corepack: supports steering systems from Yanmar® JC10 Joystick system, Teleflex® Optimus™ systems and ZF® 2800 system
- Corepack for Yamaha®: supports Yamaha Helm Master systems
- Corepack for Volvo Penta®: supports Volvo Penta IPS and stern drive joystick systems
- Minimizes heading error, course deviation, rudder movement, power consumption, while providing a comfortable ride
- Mounts in any orientation
- NMEA 2000 interface
- Minimal commissioning and calibration takes just five minutes
- Provides advanced features to compatible Garmin chartplotters such as route following, route engage, and Autopilot Virtual Device
- Connects to up to 3 GHC™ 50 control units
- Add optional Autopilot Remote for control anywhere on your boat

[1]Not recommended for fishing or applications that require holding heading while trolling or at low speeds. For applications that require precise heading control while trolling or at low speeds, our higher-performance Reactor 40 models are recommended.

GHP™ REACTOR 40 HYDRAULIC AUTOPILOTS

GHP Reactor 40 hydraulic corepack (pump sold separately) Part no: 010-02794-00
GHP Reactor 40 hydraulic with SmartPump corepack Part no: 010-02794-01



This robust unit gives powerboat users an easy-to-use autopilot system to rely on for navigation. The optional SmartPump features a more powerful, brushless motor-driven pump that is suitable for most users. It offers Intelligent Rudder Rate Technology (IRRT) which adjusts the rudder speed to the speed of your boat to ensure safer and more stable operation.

ADDITIONAL SERIES FEATURES

- Complete packages designed for hydraulically steered powerboats and sailboats
- Solid-state 9-axis AHRS, reacts to the sea to hold course, even when the boat is pitching and rolling
- Minimises heading error, course deviation, rudder movement, power consumption, while providing a comfortable ride
- Mounts in any orientation
- Minimal commissioning and calibration takes just five minutes
- One SmartPump™ fits most hydraulically steered boating applications
- NMEA 2000 interface
- Small, brushless SmartPump™ delivers better thermal performance, higher reliability, and lower power consumption
- Optimal performance for all steering cylinder sizes from 4 to 17 cubic inches
- Intelligent Rudder Rate Technology (IRRT)
- Patented Shadow Drive™ technology keeps you in control even when autopilot is engaged
- Provides advanced features to compatible Garmin chartplotters such as route following, route engage, and Autopilot Virtual Device
- Connects to up to 3 GHC™ 50 control units

PUMPS

1.2-LITER PUMP KIT

Part no: 010-00705-64



2-LITER PUMP KIT

Part no: 010-00705-63





GHP™ REACTOR 40 MECHANICAL AUTOPILOT

GHP Reactor 40 Mechanical/Retrofit/Solenoid Corepack Part no: 010-02794-02



You never know when an extra crew member can come in handy. Maybe the wind picks up, and you have to leave the wheel to raise the sails or pull in fenders. Even in calm conditions, you sometimes need to hand over to someone else. That's where this below-deck autopilot system comes in, ideally suited for sailboats or powerboats with direct or cable-actuated steering systems.

ADDITIONAL SERIES FEATURES

- Ideal for sailboats with direct or cable-actuated steering systems
- Retrofit with your existing autopilot actuator or use with one of several Garmin linear actuator options (sold separately)
- Solid-state 9-axis AHRS, reacts to the sea to hold course, even when the boat is pitching and rolling
- Minimises heading error, course deviation, rudder movement, power consumption, while providing a comfortable ride
- Mounts in any orientation
- Minimal commissioning and calibration takes just five minutes
- Engineered from corrosion-resistant components
- NMEA 2000 interface
- Enter your boat's displacement or its planning speed, and Reactor will take into consideration the various steering characteristics that are required
- Provides advanced features to compatible Garmin chartplotters such as route following, route engage, and Autopilot Virtual Device
- Connects to up to 3 GHC™ 50 control units
- The Reactor 40 autopilot can follow auto-guided routes with compatible chartplotters and Garmin Navionics+™ and Garmin Navionics Vision+™ cartography, as well as legacy BlueChart g3 and g3 Vision charts
- Add optional Autopilot remote for control anywhere on your boat

DRIVE UNITS

CLASS A MECHANICAL DRIVE UNIT FOR BOATS UP TO 13 TONNES

Part no: 010-11572-00



CLASS B COMPACT HYDRAULIC DRIVE UNIT FOR BOATS UP TO 22 TONS

Part no: 010-12029-01



CLASS B HYDRAULIC DRIVE UNIT FOR BOATS UP TO 36 TONNES

Part no: 010-11573-00





GHP™ COMPACT REACTOR 40 HYDRAULIC AUTOPILOTS

Designed for boats less than 30 feet long to provide relief from manually holding the wheel to maintain course in heavy currents or winds[1]. Solid-state 9-axis AHRS technology delivers less heading error, course deviation, rudder movement, power consumption and a more comfortable ride. Easy to install with flexible mounting options and quick, easy commissioning via a compatible chartplotter or GHC 50.



GHP COMPACT REACTOR 40 HYDRAULIC COREPACK WITH GHC™ 50 AND SHADOW DRIVE™
Part no: 010-02794-08



GHP COMPACT REACTOR 40 HYDRAULIC COREPACK WITH GHC 50
Part no: 010-02794-07



GHP COMPACT REACTOR 40 HYDRAULIC COREPACK
Part no: 010-00705-06

ADDITIONAL SERIES FEATURES

- Solid-state 9-axis AHRS, reacts to the sea to hold course, even when the boat is unstable
- Designed for boats boats less than 30 feet long
- Available in 3 pack configurations:
  GHP Compact Reactor Hydraulic Autopilot with GHC 50 and Shadow Drive™, GHP Compact Reactor Hydraulic Autopilot with GHC 50 and GHP Compact Reactor Hydraulic Autopilot
- Provides an extra set of hands, relief from manually holding the wheel to remain on course in heavy currents or winds
- Easy-to-install CCU provides flexible mounting options and quick, easy commissioning
- NMEA 2000 interface
- Minimal commissioning and calibration takes just five minutes
- 1 L geared pump supports hydraulic steering cylinders up to 10 cubic inches
- Provides advanced features to compatible Garmin chartplotters such as route following, route engage, and Autopilot Virtual Device
- Easy to add GHC 50 and Garmin patented Shadow Drive at any time if not initially included
- Add optional Autopilot remote for control anywhere on your boat



[1]Not recommended for fishing or applications that require holding heading while trolling or at low speeds. For applications that require precise heading control while trolling or at low speeds, our higher-performance Reactor 40 models are recommended.

REACTOR 40 KICKER AUTOPILOT

Reactor™ 40 Kicker Autopilot with GHC™ 50 Display Part no: 010-02794-09
Reactor™ 40 Kicker Autopilot without GHC™ 50 Display Part no: 010-00705-95

The Reactor™ 40 kicker autopilot is specially designed for boats with small gasoline outboard motors up to 20 horsepower. Whether you're going for salmon, trout, walleye or some other species, your Reactor 40 kicker autopilot can help you maintain heading hold and route to keep you on course — even against wind, waves or heavy current. It includes a convenient floating handheld remote control with bright, sunlight-readable display. The Reactor 40 kicker autopilot makes it easy to fine-tune your autopilot throttle setting with the touch of a button and to quickly drop to idle speed when netting a fish. Enjoy easy integration with our included GHC™ 50 display, compatible Garmin chartplotters or NMEA 2000® network-compatible GPS system for a seamless onboard setup.



ADDITIONAL SERIES FEATURES

- Specially designed for boats with small gasoline outboard motors up to 20 horsepower
- Helps maintain heading hold and route to keep you on course — even against wind, waves or heavy current
- Includes convenient floating handheld remote control with a bright, sunlight-readable display
- Easily fine-tune autopilot throttle setting with the touch of a button to quickly drop to idle speed when netting a fish
- Easy to install and integrate with our included GHC™ 50 display, compatible Garmin chartplotters or NMEA 2000® network-compatible GPS system



CAMERAS





MARINE CAMERAS



Garmin marine cameras add security and heightened awareness to your vessel. They provide an extra set of eyes to monitor areas above or below decks – even in low light – making them perfect for engine rooms. The small size and rugged weatherproof cases allow you to install them nearly anywhere on your boat.

GC™ 200 MARINE IP CAMERA

Part no: 010-02164-00

- MONITOR AREAS ABOVE AND BELOW DECK IN REAL TIME
- HD RESOLUTION IMAGES EVEN IN LOW LIGHT
- STREAM VIDEO FROM UP TO 4 CAMERAS AT A TIME ON A SINGLE COMPATIBLE CHARTPLOTTER
- REVERSE-IMAGE SETTING HELPS WHEN BACKING OUT OF TIGHT LOCATIONS SUCH AS CROWDED MARINAS
- SHARE VIDEO ACROSS MULTIPLE COMPATIBLE CHARTPLOTTERS

GC™ 100 WIRELESS MARINE CAMERA

Part no: 010-01865-31

Compact wireless camera streams high-quality video to your compatible chartplotter and any other chartplotter on the same network. Effective in total darkness, it's perfect for the engine room. Easy to install and hardwired for power, the camera is ready to use with one-button setup.

GC™ 14 MARINE CAMERA

Part no: 010-02667-00

Small and discreet, this camera delivers excellent quality images. Use it in multiple areas above or below decks, and view on one chartplotter or across multiple networked compatible chartplotters. It can help you back out of a crowded marina or keep an eye on your dark engine room.

THE LINEUP

	GC 14 Maine Camera	GC 200 Marine IP Camera	GC 100 Marine Camera
Boat monitoring camera	•	•	•
Low-light vision	•	•	•
Versatile mounting options	•	•	•
Rugged housing	•	•	•
Water rating	IPX7	IPX7	IPX7
Video Resolution	976(H) x 582(V)	Up to 1920 x 1080P[1]	720p
One-button startup			•
Pair multiple camera		•	•
Connection to Chartplotter	Analog	IP	Wi-Fi®
Hardwired Power	12V	12V and POE	12V

[1]All current Garmin Chartplotters can only support up to 1280x720P.

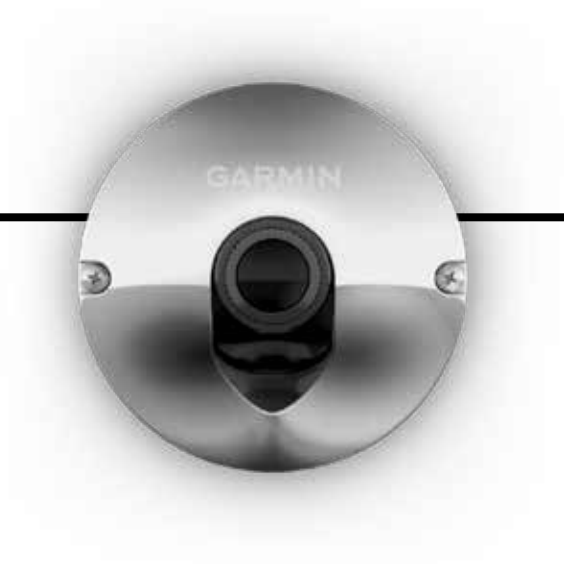
Wi-Fi® is a registered trademark of the Wi-Fi Alliance.

GC™ 245 SURFACE-MOUNT CAMERA

010-02892-10, GC245 White
010-02892-11, GC245 Black

Enhance proximity awareness and confidence at the dock with the GC™ 245 surface-mount camera. Use the distance markers (professional calibration required) or guidance lines to help avoid obstacles in the marina. See video feeds in high definition from multiple views, including FishEye and standard views with low-light capabilities.





GC™ 255 FLUSH-MOUNT CAMERA

Part no: 010-02892-00

Enhance proximity awareness and confidence at the dock with the low-profile GC™ 255 flush-mount camera. Use the distance markers (professional calibration required) or guidance lines to help avoid obstacles in the marina. See video feeds in high-definition from multiple camera views, including FishEye and standard views with low-light capabilities.

ADDITIONAL FEATURES FOR GC™ 245 AND GC™ 255

- Surface-mount marine camera with 1080p resolution capability; available with a black or white finish
- Use the distance markers (professional calibration required) or guidance lines to help avoid obstacles in the marina
- Simple installation with dome up or down mounting options (GC™ 245)
- Easy setup and full integration on the Garmin Marine Network or Garmin BlueNet™ network (GC™ 245)
- Thru-hull mounting ensures stable installation (GC™ 255)
- Full integration is easy on the Garmin Marine Network or Garmin BlueNet™ network (GC™ 255)
- See up to four camera feeds simultaneously on your compatible chartplotter, or watch the video on multiple networked chartplotters
- Get the right perspective with FishEye and standard views with impressive low-light performance; also available with BirdsEye camera view (professional calibration required)
- Use digital zoom and pan to take a closer look at the video feed
- Built for life on the water with an IPX7 water rating

GUIDANCE LINES



Set up your own guidance lines for more confidence avoiding obstacles in the marina.

DISTANCE MARKERS



Use distance markers calibrated to your vessel by the boatbuilder so you know how far away you are from objects.

THREE CAMERA VIEWS



Get the right perspective with FishEye and standard views with impressive low-light performance; GC255 & GC 245 is also available with BirdsEye camera view.

MULTIPLE CAMERA FEEDS



See up to four camera feeds simultaneously on your compatible MFD; watch the video on networked chartplotters, or set it up on a custom combo page.

SURROUND VIEW SYSTEM



In tight maneuvering situations, the Garmin Surround View Camera System is a video guidance breakthrough. It's a fully integrated system of cameras that offers live bird's-eye view video monitoring for full 360-degree visibility around the boat from the helm. The video feed from the discreet, OEM factory-installed six-camera array seamlessly integrates with compatible Garmin chartplotters or MFD helm displays. The cameras also support situational awareness augmented reality features such distance markers (similar to automotive backup camera viewing) and a visual bumper that helps the captain see when docks or other objects breach preset barrier limits around the boat. OEM installation of either thru-hull or surface-mount cameras offers secure fit and calibration for reliable, low-maintenance operation.

LIVE BIRD'S-EYE VIEW VIDEO

FULL 360-DEGREE WRAPAROUND VIEW

SLEEK IN-HULL OR SURFACE-MOUNT CAMERA INSTALLATION OPTIONS

SLEEK IN-HULL OEM INSTALLATION

SEEMLESS SITUATIONAL AWARENESS



The 360-degree video feed integrates with compatible Garmin chartplotters or MFD helm displays. Each camera view can also be monitored individually.

VISUAL BUMPER



A visual bumper feature helps the captain see when docks, piers or other objects breach preset barrier limits around the boat.

DISTANCE MARKERS



In tight maneuvering situations, distance markers around the boat provide visual cues to help maintain safe clearance and separation.

ENGINEERED FOR LOW MAINTENANCE



Thru-hull OEM installation offers secure and calibration of the Surround View Camera System. For enhanced installation versatility, Surround View is now available with a surface-mount camera option as well.




GARMIN

WEARABLES AND HANDHELDS



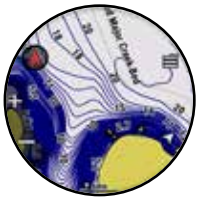
QUATIX® 8 SERIES



Plot your paradise on the water and beyond with the quatix 8 series of high-performance marine smartwatches. Providing comprehensive connectivity features, these premium watches let you seamlessly control Force® trolling motors, Fusion® stereos, autopilots, compatible Garmin chartplotters and more from your wrist — while keeping an eye on data streamed from your onboard system. The quatix 8 Pro model adds built-in inReach® technology[1] for satellite and LTE connectivity. That means no smartphone pairing is required to use your watch for voice calls and LiveTrack™ location sharing when you're connected to an LTE network — or utilize two-way messaging and interactive SOS messaging capability from either an LTE or satellite link. Each quatix 8 model features built-in boating and sailing apps, plus a bright 1.4" AMOLED color display, scratch-resistant lens, titanium bezel and powerful LED flashlight.

- EXTEND YOUR ADVENTURE WITH UP TO 16 DAYS OF BATTERY LIFE
- BUILT-IN SPEAKER AND MIC FOR CHARTPLOTTER VOICE COMMANDS VIA BLUETOOH® TECHNOLOGY
- BOAT DATA STREAMING AND CHARTPLOTTER VOICE CONTROL[2]
- DIMMABLE BUILT-IN LED FLASHLIGHT
- 24/7 HEALTH AND WELLNESS FEATURES
- QUATIX 8 PRO HAS INREACH TECHNOLOGY FOR LTE AND SATELLITE CONNECTIVITY[1]

MARINIZED DESIGN



This premium design is dive-rated and features leakproof buttons, a metal sensor guard and bright 1.4" AMOLED display with a scratch-resistant lens and durable titanium bezel.

COMPREHENSIVE HELM CONTROL



Enjoy remote control capabilities with select compatible Garmin chartplotters, autopilots, Force trolling motors, Fusion stereos and more.

DEDICATED MARINE FEATURES



Stay aware and get alarms for imminent tide changes or anchor drag. Take the podium with sail-specific features such as tack assist, race start guidance and regatta timer.

BUILT-IN LED FLASHLIGHT



A true integrated flashlight with variable light intensities and a red safety light can give you greater awareness at sea or at home, providing convenient illumination when you need it.

KNOWLEDGE IS POWER



A customizable morning report offers a summary of health and wellness information. Use the training readiness feature to help maximize your training and recovery.

THE LINEUP

	quatix 8 (47 mm) 010-02904-51	quatix 8 (51 mm) 010-02905-91	quatix 8 Pro (47mm) 010-02803-81
Bezel and Band	Titanium with silicone band	Titanium with silicone band	Titanium with silicone band
Lens Material	Sapphire crystal	Sapphire crystal	Sapphire crystal
Display Type	AMOLED	AMOLED	AMOLED
Built-in Speaker + Mic	Yes	Yes	Yes
inReach Technology for LTE and Satellite	No	No	Yes
Battery Life	Up to 16 days in smartwatch mode; up to 42 hours in GPS mode	Up to 29 days in smartwatch mode; up to 42 hours in GPS mode	Up to 15 days in smartwatch mode; up to 44 hours in GPS mode
Water Rating	10 ATM	10 ATM	10 ATM
Built-in LED Flashlight	Yes	Yes	Yes
Dive Rating	4 ATM	4 ATM	4 ATM

[1]Active subscription required; coverage limitations may apply, e.g., satellite coverage up to 50 miles offshore; some jurisdictions regulate or prohibit the use of satellite communication; it is the user's responsibility to know and follow all applicable laws.

[2]When paired with a compatible smartphone; see Garmin.com/ble

GARMIN ONBOARD™ SYSTEM

DAME DESIGN AWARDS CATEGORY WINNER 2025



Tag what matters most with this wireless (man overboard) MOB detection and engine cutoff system. Using wireless technology instead of the more traditional tethered cords, the Garmin OnBoard system (GOS) lets you move freely and boat confidently. It allows for up to 8 MOB tags to be tracked at one time, and tags can be assigned with either captain or passenger designations. The captain-designated tag allows for emergency engine shutoff should that key person fall overboard while the boat is moving. The wireless MOB tags can be worn comfortably on a wrist band, carabiner or key ring float — pairing easily with your compatible Garmin chartplotters for automatic MOB waypoint recording at the time of MOB detection. Plus, the system's GOS 10 hub includes a loud external alarm for alerting in a potential MOB emergency situation.

WIRELESS MOB TAGS ENABLE FREEDOM OF MOVEMENT

CAPTAIN MOB TAG DETECTION TRIGGERS ENGINE CUTOFF

CHARTPLOTTER INTEGRATION RECORDS MOB WAYPOINT

TRACKS UP TO 8 MOB TAGS AT ONCE

TAG WHAT MATTERS MOST

Wireless wearable MOB tags can be designated as either captain or passenger. Passenger MOB tag detection will trigger MOB messages on paired MFDs — plus an audible alarm. Captain MOB tag detection will also trigger engine cutoff.

PAIR WITH MULTIPLE TAGS

The Garmin OnBoard system can pair with up to 8 tags at a time — so you can make sure everyone is tagged and accounted for.

WIRELESS: NO STRINGS ATTACHED

Unlike a traditional tethered system, Garmin OnBoard is a fully wireless solution. The wearable MOB tags let you move freely and untethered while still being monitored.

WANT TO GO FOR A SWIM?

Garmin chartplotter integration allows you to temporarily disable the MOB tag function to allow for hassle-free fun on the water.

LONG BATTERY LIFE

MOB tags stay alert for trouble — with long battery life that typically exceeds a full boating season of operation.




THE QUALIFIED CAPTAIN

HANDHELDS

GPSMAP® 73 AND GPSMAP® 79S

Boaters and watersport enthusiasts everywhere swear by GPS 73 and GPSMAP 79s handhelds. They float! The 79 series features bright 2.6" LCD color displays with built-in worldwide basemaps and a special MOB (man overboard) button. The GPS 73 includes SailAssist features, including virtual starting line, heading line, countdown timers and tack assist.



GPSMAP 73



GPSMAP 79S

THE LINEUP

	GPS 73 010-01504-00	GPSMAP 79s 010-2635-00	GPSMAP 86s 010-02235-01	GPSMAP 86i 010-02236-01
Easy-to-use Handheld	•	•	•	•
Floats	•	•	•	•
SailAssist	•			
Back-lit Buttons	•	•	•	•
Color Screen		•	•	•
Worldwide Basemap		•	•	•
Ability to Add Maps		•	•	•
Waypoints/Favorites/Locations	1,000	2,000	10,000	10,000
Routes	50	200	250	250
inReach® Satellite Technology[1]				•
Memory/History		1.7 GB	16 GB	16 GB
Battery Life	18 hours	20 hours	40 hours	35 hours
Compass		Tilt-compensated 3-axis	Tilt-compensated 3-axis	Tilt-compensated 3-axis
Barometric Altimeter		•	•	•

[1]Satellite subscription required • Wi-Fi is a registered trademark of the Wi-Fi Alliance.

NOTICE: Some jurisdictions regulate or prohibit the use of satellite communications devices. It is the responsibility of the user to know and follow all applicable laws in the jurisdictions where the device is intended to be used.

HANDHELDS

GPSMAP® 86 SERIES HANDHELDS

2023 Product Award Winner

Cast off confidently with GPSMAP® 86 handheld series - Premium, floating handhelds with a sunlight-readable 3" colour display. GPSMAP 86i and 86s both support optional BlueChart g3 charts with integrated Navionics® data. Wireless connectivity makes these handhelds a virtual extension of your onboard marine system, displaying boat data from compatible chartplotters and instruments.

They also function as a remote control for convenient operation of your Garmin autopilot and FUSION® marine products. GPSMAP 86i allow you to stay in touch anywhere with inReach® satellite communication capabilities[1], two-way text messaging and interactive SOS. Share your position using GPS-based location tracking.



GPSMAP 86s



GPSMAP 86i



INREACH® MESSENGER

Providing global two-way messaging and interactive SOS, the inReach Messenger satellite communicator keeps you connected with friends and family even when you're out of cell coverage[1]. Texting and group messaging is easy when using the Garmin Messenger™ app. Or send/receive messages by using compatible Garmin handhelds, wearables or other devices. Seamless switching between Wi-Fi® wireless networking, cellular and satellite networks gives you the best connectivity and cost-efficiency for all your communications.



INREACH® MESSENGER PLUS

Tell them you miss them. Show them the view. Share the experience. The inReach Messenger Plus SOS satellite communicator[1] lets you exchange text, photo and voice messages[2] when your adventure takes you beyond cellular range. Should the need arise, trigger an SOS message with GPS coordinates to Garmin Response , a 24/7-staffed international response coordination center for help in an emergency.



INREACH® MINI 2 MARINE BUNDLE

The inReach Mini2 Marine bundle puts the rugged, compact inReach Mini2 satellite communicator on your boat for interactive SOS, two-way messaging and basic navigation via the global Iridium network[1]. The screw down mount, 12-volt power cable and wireless connectivity to compatible chartplotters let you add peace of mind to your adventures without taking up space on your helm. Off its mount, the internal, rechargeable lithium up to 14 days in default 10-minute tracking mode and up to 30 days with 30-minute tracking interval.

[1]Satellite subscription required • NOTICE: Some jurisdictions regulate or prohibit the use of satellite communications devices. It is the responsibility of the user to know and follow all applicable laws in the jurisdictions where the device is intended to be used. Other Garmin maps not compatible with this device.

ACCESSORIES



GRID 20 REMOTE INPUT DEVICE

Part no: 010-02011-00 (Portrait), 010-02011-01 (Landscape)



The easy-to-use remote input device provides access and control of your entire Garmin marine System. It features a 360-degree joystick with a rotary knob and push-to-select button for easy chartplotter menu/setting navigation and fine control even in the worst conditions. You can designate 4 favorite keys to restore your system to a previously saved configuration.

APK™ 10 AUTOPILOT KEYPAD

Part no: Horizontal 010-03197-00 Vertical 010-03197-01



Get precise control of your autopilot in all sea conditions with this easy-to-use tactile control panel accessory. It works with your Reactor™ 40 autopilot and GHC™ 50 autopilot instrument to allow simple, intuitive knob and button activation, heading changes and more.

MSC 10 MARINE SATELLITE COMPASS

Part no: MSC10, White, 010-02407-00
Part no: MSC10, Black, 010-02407-10



With multi-band GNSS and a fully integrated attitude and heading reference system, this satellite compass ensures a smooth and accurate GPS-derived heading and position on the water. It will also deliver precise pitch, roll and heave information — even in rough seas — to a compatible Garmin chartplotter (sold separately) via the NMEA 2000® network.

STEADYCAST™ HEADING SENSOR

Part no: 010-11417-10



SteadyCast heading sensor is a simple, easy-to-install solution that provides fast calibration and premium heading accuracy. It aligns your boat bow to its actual orientation so you know where you are casting according to your chartplotter screen. It's accurate even at low speed and effective in rough water.

GARMIN USB CARD READER

Part no: 010-02251-00



Save space on your helm with the compact, water-resistant SD™ card reader. It holds two full-size SD cards for quick access to charts, software updates and ActiveCaptain® data.

Featuring a 2"x 2" footprint, flush mounting and USB connection to the back of your chartplotter, this card reader easily integrates into a crowded dash or elsewhere at the helm.

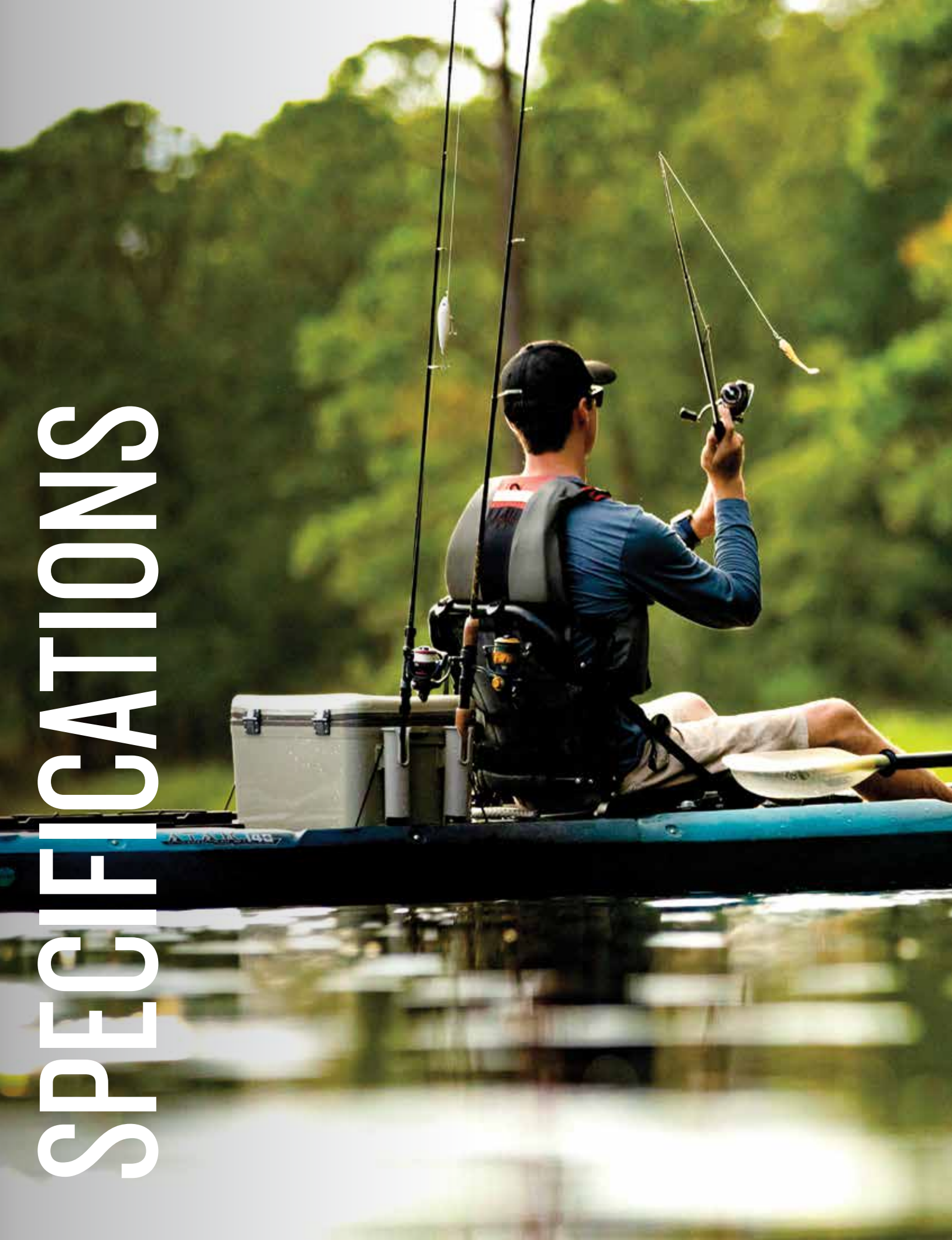
GPS 24XD RECEIVER

Part no: GPS 24xHD White, 010-02316-10
Part no: GPS 24xHD Black, 010-02316-20



Explore coastal waters with the GPS 24xd position receiver and antenna. Get precise location to within 1 meter with dual-frequency band GPS and heading accuracy even at slow speeds with magnetic heading sensors. System-compatible antenna versions are available for both NMEA 2000® and NMEA 0183.

SPECIFICATIONS




WILDERNESS

Fusion Stereo Comparison

	MS-RA800	MS-RA670	MS-WB675
			
Rated power output	(4 Ohm) 40 W x 4 RMS @14.4 V input @ < 1% THD)	(2 Ohm) 43 watts RMS x 4 @ 14.4 V input < 10% THD (4 Ohm) 26 watts RMS x 4 @ 14.4 V input < 10% THD	(2 Ohm) 43 watts RMS x 4 @ 14.4 V input < 10% THD (4 Ohm) 26 watts RMS x 4 @ 14.4 V input < 10% THD
Amplifier	Class-D	Class-D	Class-D
Multi-Zone™ Technology	4 zones	3 zones	4 zones
Display	4.3" capacitive touchscreen color LCD	No	No
Line Out	4 (1 x L + R per zone)	3 (1 x L + R per zone)	4 (1 x L + R per zone)
Subwoofer Out	4 (1 mono output per zone)	3 (1 per zone)	4 (1 per zone)
Auxiliary Inputs	2 x RCA inputs	1 x RCA input	1 x RCA input
Tuner	AM/FM with RDS (where available)	AM/FM with RDS (where available)	AM/FM with RDS (where available)
Built-in Wi-Fi®	Yes	No	No
iPod®/iPhone®	Yes	Yes	Yes
Android™/Windows® MTP Support	Yes	Yes	Yes
USB	Yes - 1 connection	Yes - 1 connection	Yes - 1 connection
BLUETOOTH® Wireless Technology	Yes	Yes	Yes
Optical Audio Input	Yes	Yes	Yes
DAB+ Ready	Included	Yes	Yes
Fusion-Link™ via NMEA 2000®	Yes	Yes	Yes
Fusion-Link via Ethernet/Wi-Fi	Yes	Yes	Yes
Fusion Audio App via BLUETOOTH	Yes	Yes	Yes
Fusion Audio App via ANT®	Yes	Yes	Yes
Water Resistance (IP rating)	IPX6 and IPX7 front panel	IPX2	IPX2
Chassis	Electrically isolated, impact-resistant plastic	Electrically isolated, impact-resistant plastic with heat sink	Electrically isolated, impact-resistant plastic with heat sink
Mounting Options	Flush and flat	Surface	Surface
Warranty	3 years	3 years	3 years

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Fusion Stereo Comparison

	MS-SRX400	MS-RA210	MS-RA60	MS-BB100
				
Rated power output	(2 Ohm) 43 watts RMS x 2 @ 14.4 V input < 10% THD (4 Ohm) 26 watts RMS @ 14.4 V input < 10% THD	200 W (4x50 W)	(4 Ohm) 22 watts RMS x 4 @ 14.4 V input < 10% THD	(4 Ohm) 26 watts RMS x 4 @ 14.4 V input < 10% THD
Amplifier	Class-D	Class-D	Class-D	Class-AB
Multi-Zone™ Technology	No	2 zones	2 zones	2 zones
Display	2.7" optically bonded color LCD	2.7" optically bonded color LCD	2.3" perimeter bonded monochrome LCD	No
Line Out	1 (1 x L + R)	2 (1 x L + R per zone)	1 (1 x L + R zone 1)	2 (1 x L + R per zone)
Subwoofer Out	1 (mono output)	2 (1 per zone)	1 (zone 1)	1 (zone 1)
Auxiliary Inputs	No	1 x RCA input	1 x RCA input	1 x RCA input
Tuner	AM/FM with RDS (where available)	AM/FM with RDS (where available)	AM/FM with RDS (where available)	AM/FM with RDS (where available)
Built-in Wi-Fi®	Yes	No	No	No
iPod®/iPhone®	No	Yes	No	Yes
Android™/Windows® MTP Support	No	Yes	No	No
USB	No	Yes - 1 connection	No	Yes - 1 connection
BLUETOOTH® Wireless Technology	Yes	Yes	Yes	Yes
Optical Audio Input	No	No	No	No
DAB+ Ready	No	Yes	Included	Yes
Fusion-Link™ via NMEA 2000®	No	Yes	No	Yes
Fusion-Link via Ethernet/Wi-Fi	Yes	No	No	No
Fusion Audio App via BLUETOOTH	Yes	Yes	Yes	Yes
Fusion Audio App via ANT®	No	Yes	Yes	Yes
Water Resistance (IP rating)	IPX6 and IPX7 front panel	IPX6 and IPX7 front panel	IPX6 and IPX7 front panel	IPX3 black box with IPX7 remote
Chassis	Electrically isolated, impact-resistant plastic	Electrically isolated, impact-resistant plastic	Electrically isolated, impact-resistant plastic	Aluminum
Mounting Options	Flush and flat	Flush and flat	Flush and flat	Flush and flat (remote)
Warranty	3 years	1 year	1 year	1 year

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Fusion Speaker Comparison

	Apollo 8.8" Speakers	Apollo 7.7" Speakers	Apollo 6.5" Speakers	XS Series 7.7" Speakers	XS Series 6.5" Speakers	XS Series 4" Speakers	SG-TW101SPW
							
Speaker Size	8.8"	7.7"	6.5"	7.7"	6.5"	4"	1"
Peak Power (watts)	520	400	300	240	200	120	330
RMS Power Rating (watts)	130	100	75	60	50	30	60
Efficiency (1 W @ 1 m)	91 dB	91 dB	90 dB	92 dB	91 dB	87 dB	91 dB
Frequency Response	50 Hz - 20 kHz	60 Hz - 22 kHz	70 Hz - 22 kHz	70 Hz - 18 kHz	80 Hz - 18 kHz	100 Hz - 18 kHz	3 kHz - 20 kHz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
Tweeter Type	Silk dome	Silk dome	Silk dome	Aluminum dome	Aluminum dome	Aluminum dome	Aluminum dome
Cone Material	CURV®	CURV®	CURV®	Polypropylene	Polypropylene	Polypropylene	N/A
Voice Coil Diameter	1.5"	1.4"	1.2"	1.18"	1.18"	1"	1"
Mounting Diameter Clearance	7.09" (180 mm)	6.14" (156 mm)	5.35" (136 mm)	6.38" (162 mm)	5.31" (135 mm)	3.90" (99 mm)	2.01" (51 mm)
Mounting Depth Clearance	4.13" (105 mm)	3.39" (86 mm)	3.03" (77 mm)	3.03" (77 mm)	2.64" (67 mm)	2.13" (54 mm)	1.22" (31 mm)
LED Lighting	CRGBW	CRGBW	CRGBW	RGB (select models)	RGB (select models)	No	No
Warranty	3 years	3 years	3 years	3 years	3 years	3 years	3 years



Fusion Speaker Comparison

	FM Series 7.7" Speakers	FM Series 6.5" Speakers	SM Series 6.5" Speakers	EL Series 6.5" Speakers
				
Speaker Size	7.7"	6.5"	6.5"	6.5"
Peak Power (watts)	200	120	100	80
RMS Power Rating (watts)	50	30		20
Efficiency (1 W @ 1 m)	91 dB	87 dB	84 dB	88 dB
Frequency Response	80 Hz - 18 kHz	100 Hz - 18 kHz	150 Hz - 20 kHz	45 Hz - 16 kHz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms
Tweeter Type	Aluminum dome	Aluminum dome	None	None
Cone Material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Voice Coil Diameter	1.18"	1"	0.79"	0.79"
Mounting Diameter Clearance	6.50" (165 mm)	5.43" (138 mm)	5.12" (130 mm)	5.12" (130 mm)
Mounting Depth Clearance	3.27" (83 mm)	2.76" (70 mm)	0.94" (24 mm)	1.69" (43 mm)
LED Lighting	No	No	No	RGB (select models)
Warranty	3 years	3 years	1 year	1 year



Fusion Remotes and Accessories Comparison

	Apollo MS-ERX400	MS-NRX300	MS-ARX70	XS Series Wake Tower Mounting Brackets
				
Physical Dimensions	Remote Dimensions Including Cable: 4.32" x 2.76" x 2.80" (110 x 70 x 71.4 mm)	Remote Dimensions: 4.33" x 2.76" x 1.97" (110 x 70 x 50 mm)	Remote Dimensions: 2.56" x 0.43" (65 x 10.8 mm)	Pipe Mount 2.5" Bracket Dimensions: 3.94" x 3.70" x 1.87" (100 x 94 x 47.5 mm) Pipe Mount 2" Bracket Dimensions: 3.35" x 2.91" x 1.89" (85 x 74 x 48 mm) Flat Mount Bracket Dimensions: 3.54" x 2.91" x 1.89" (90 x 74 x 48 mm)
Weight	Excluding cable 3.5 oz (100 g)		With mount: 1.6 oz (30 g) Without mount: 0.88 oz (25 g)	
Water Rating	IPX6 and IPX7	IPX7	IPX6 and IPX7	
Power Input	10.8-32 VDC	10.8-16 VDC		
Operating Temperature Range	32° to 122° F (0° to 50° C)	32° to 122° F (0° to 50° C)	32° to 122° F (0° to 50° C)	
Current (max.)	150 mA at 12 VDC 125 mA at 14.4 VDC	110 mA at 12 VDC		
Compass-safe Distance	6.1" (150 mm)		2" (50 mm)	
Display	2.7" optically bonded color LCD	2.6" optically bonded monochrome LCD		
Wireless Range			Up to 33' (10 m)	
Battery Type				
Materials				Aluminum alloy
Radio Frequency/Protocol			2.4 GHz at 6.42 dBm nominal	
Multi-language Interface	Yes			
Software Updates	Over-the-air software updates via the Fusion® Audio app when connected to a external wireless router or Apollo Series stereo network enabled with Wi-Fi technology via Ethernet			
Speakers and Subwoofers Controlled				
Supported Wake Tower Bar Sizes				Pipe Mount 2.5" Bracket: Ø 2" to 2.5" (Ø 50.8 to 63.5 mm); user adjustable Pipe Mount 2" Bracket: Ø 1.31" to 2" (Ø 33.4 to 50.8 mm); user adjustable
Warranty	3 years	3 years	1 year	1 year
Connection	One power over Ethernet port	One NMEA 2000 port		

Wi-Fi is a registered trademark of the Wi-Fi Alliance.



JL Audio Speakers

	M6 Coaxials	M3 Coaxials	M6 VeX Enclosed Coaxial Systems	M3 VeX	M6 ETXv3	M3 ETXv3
						
Sizes	6.5" / 7.7" / 8.8"	6.5" / 7.7"	6.5"	6.5"	7.7" / 8.8"	7.7"
Continuous Power Handling (RMS)	6.5": 75 W 7.7": 100 W 8.8": 125 W	6.5": 60 W 7.7": 70 W	75 W	60 W	7.7": 100 W 8.8": 125 W	70 W
Sensitivity (SPL @ 1 watt / 1 meter)	6.5": 89.5 dB 7.7": 91.0 dB 8.8": 90.5 dB	6.5": 89.5 dB 7.7": 90.5 dB	89.5 dB	89.5 dB	7.7": 91.0 dB 8.8": 90.5 dB	90.5 dB
Frequency Response (+/- 3 dB)	6.5": 55 Hz - 25 kHz 7.7": 45 Hz - 25 kHz 8.8": 38 Hz - 20 kHz	6.5": 55 Hz - 25 kHz 7.7": 45 Hz - 25 kHz	100 Hz - 25 kHz	100 Hz - 25 kHz	6.5": 45 Hz - 25 kHz 7.7": 38 Hz - 20 kHz	55 Hz - 25 kHz
Nominal Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Tweeter Type	Silk Dome	Silk Dome	Silk Dome	Silk Dome	Silk Dome	Silk Dome
Tweeter Size	6.5": 0.8" (20 mm) 7.7": 1" (25 mm) 8.8": 1.25" (32 mm)	0.75" (19 mm)	0.8" (20 mm)	0.75" (19 mm)	7.7": 1" (25 mm) 8.8": 1.25" (32 mm)	0.75" (19 mm)
Cone Material	Injection-molded, mica-filled polypropylene	Injection-molded, mica-filled polypropylene	Injection-molded, mica-filled polypropylene	Injection-molded, mica-filled polypropylene	Injection-molded, mica-filled polypropylene	Injection-molded, mica-filled polypropylene
Mounting Depth Clearance	6.5" (Classic / Sport): 3" (76 mm) 6.5" (Luxe): 3.87" (98 mm) 7.7" (Classic / Sport): 3.32" (84 mm) 7.7" (Luxe): 4.26" (108 mm) 8.8" (Classic / Sport): 5" (127 mm) 8.8" (Luxe): 6.30" (160 mm)	6.5" (Classic / Sport): 2.78" (71 mm) 7.7": (Classic / Sport): 3.17" (81 mm)				
LED Lighting	Yes - Transflective™ (Select Sport models only)	Yes - RGB (Select Sport models only)	Yes - Transflective™ (Select Sport models only)	Yes - RGB (Select Sport models only)	Yes - Transflective™ (Select Sport models only)	Yes - RGB (Select Sport models only)
Warranty	2 years	2 years	2 years	2 years	2 years	2 years
Physical Dimensions (Diameter)	6.5" (Classic / Sport): 6.90" (175 mm) 6.5" (Luxe): 8.34" (212 mm) 7.7" (Classic / Sport): 7.70" (196 mm) 7.7" (Luxe): 7.70" (196 mm) 8.8" (Classic / Sport): 8.80" (224 mm) 8.8" (Luxe): 8.80" (224 mm)	6.5" (Classic / Sport): 6.90" (175 mm) 7.7": (Classic / Sport): 7.70" (196 mm)	7.03" (179 mm)	7.03" (179 mm)	7.7": 7.70" (196 mm) 8.8": 8.80" (224 mm)	7.70" (196 mm)
Physical Dimensions (Depth)	6.5" (Classic): 3.94" (100 mm) 6.5" (Sport): 4.02" (102 mm) 6.5" (Luxe): 4.02" (102 mm) 7.7" (Classic): 4.35" (110 mm) 7.7" (Sport): 4.4" (112 mm) 7.7" (Luxe): 4.4" (112 mm) 8.8" (Classic): 6.37" (162 mm) 8.8" (Sport): 6.45" (164 mm) 8.8" (Luxe): 6.45" (164 mm)	6.5" (Classic): 3.75" (95 mm) 6.5" (Sport): 3.79" (96 mm) 7.7": (Classic): 4.19" (106 mm) 7.7": (Sport): 4.27" (108 mm)	6.16" (156 mm)	6.16" (156 mm)	7.7" (Classic): 12.62" (321 mm) 7.7" (Sport): 12.67" (322 mm) 8.8" (Classic): 14.73" (374 mm) 8.8" (Sport): 14.80" (376 mm)	7.7" (Classic): 12.62" (321 mm) 7.7" (Sport): 12.69" (323 mm)

JL Audio Subs

	M7 SUBWOOFERS	M6 SUBWOOFERS	M3 SUBWOOFERS
			
Sizes	12"	8" / 10"	10"
Continuous Power Handling (RMS)	600 W	8": 200 W 10": 250 W	175 W
Sensitivity (SPL @ 1 watt / 1 meter)	86.7 dB	8": 86.8 dB 10" (IB): 86.1 dB 10" (W): 86.4 dB	87.23 dB
Nominal Impedance	4 Ω	4 Ω	4 Ω
Cone Material	Injection-molded, mica-filled polypropylene	Injection-molded, mica-filled polypropylene	Injection-molded, mica-filled polypropylene
Voice Coil Diameter	4" (102 mm)		
Mounting Depth Clearance	7.94" (202 mm)	8" (Classic / Sport): 5" (127 mm) 8" (Luxe): 6.30" (160 mm) 10" (Classic / Sport): 5.90" (150 mm) 10" (Luxe): 6.98" (177 mm)	5" (127 mm)
LED Lighting	Yes - Transflective™ (Select Sport models only)	Yes - Transflective™ (Select Sport models only)	Yes - RGB (Select Sport models only)
Warranty	2 years	2 years	2 years
Physical Dimensions (Diameter)	14" (356 mm)	8": 8.80" (224 mm) 8" (Luxe): 8.70 lb / 3.90 kg 10": 10.75 (273 mm) 10" (Luxe): 10.25 (260 mm)	10.75 in (273 mm)
Physical Dimensions (Depth)	12" (Classic): 9.39" (239 mm) 12" (Sport): 9.42" (240 mm)	8" (Classic): 6.37" (162 mm) 8" (Sport): 6.45" (164 mm) 10": 7.56" (192 mm)	10" (Classic): 6.50" (165 mm) 10" (Sport): 6.58" (203 mm)
Driver Displacement	0.148 cu ft (4.19 L)	8" (Luxe): 0.073cu ft (2.07 L) 8": 0.033 cu ft (0.93 L) 10": 0.052 cu ft (1.47 L) 10" (Luxe): 0.099 cu ft (2.80 L)	0.052 cu ft (1.47 L)
Sealed Enclosure Specifications			
Volume (net int.)	3.00 cu ft (85 L)	8" / 10" (IB): 2.00 cu ft (56.6 L) 10" (W):0.75 cu ft (21.2 L)	2.00 cu ft (56.6 L)
Ported Enclosure Specifications			
Volume (net int.)	5.00 cu ft (141.6 L)	8": 1.50 cu ft (42.5 L) 10" (IB): 2.5 cu ft (70.8 L) 10: (W): 2 cu ft (56.6 L)	
Internal Port Diameter (ID)	5" (127 mm)	8": 4" (102 mm) 10" (IB): 4" (102 mm) 10" (W): 3" (76 mm)	
Port Length (L)	13.5" (343 mm)	8": 13.5" (343 mm) 10" (IB): 12" (305 mm) 10" (W): 11.125" (283 mm)	
Tuning Frequency (Fb)	25 Hz	8": 37 Hz 10" (IB): 30 Hz 10" (W): 31 Hz	

* The enclosure recommendations listed above are external dimensions which assume the use of 0.75 in (19 mm) thick material. If you are using 0.625 in (16 mm) thick material, subtract 0.25 in (6.5 mm) from each dimension. Do not use any material with a thickness of less than 0.625 in (16 mm) because this may compromise the rigidity of the enclosure.

* All enclosure volumes listed above are net internal volumes! Driver displacement, port displacement and brace displacement must be added to obtain the final gross internal volume. All enclosure dimensions above have already taken this into account.

* When using multiples in a common enclosure you will need to recalculate the enclosure and port dimensions. For assistance please contact your authorized JL Audio dealer or JL Audio technical support.

* We recommend the use of this in a bi-amplified system using high-quality satellites and a high-quality amplifier. We do not recommend the use of this with a passive crossover (coil), because this type of device will adversely affect performance.

* All specifications are subject to change without notice.

JL Audio Source Units

	MM105	MM55	MMR-40	MMA-1-HTML	MMR-5N2K	MMR-25W	MMR-20-BE	MBT
								
Rated Continuous (RMS) Power (14.4 V input @ 4 Ω < 1% THD)	N/A	25 W x 4	N/A	N/A	N/A	N/A	N/A	N/A
Built-in Amplifier	No	Class-D (2 Ω stereo-stable)	No	No	No	No	No	No
Multi-Zone™ Technology	Yes	Yes	No	No	No	No	No	Controller: Yes Receiver: No
Display	MM105: 3.5" optically bonded color TFT LCD, backlit MM105-HR: N/A	MM55: 2.8" optically bonded color TFT LCD, backlit MM55-HR: N/A	2.8" color TFT LCD, backlit	N/A	N/A	LED zone indicator	LED source indicator	N/A
Line Out (requires external amplification)	4 (L + R per zone)	3 (L + R per zone)	None	None	None	None	None	Controller: 2 (L + R per zone) Receiver: 1 (L + R)
Subwoofer Out (requires external amplification)	4 (1 mono output per zone)	3 (1 mono output per zone)	None	None	None	None	None	Controller: Zone 1 (1 mono output) Receiver: None
Auxiliary Inputs (Stereo RCA)	2 (2 V or 1 V RMS Input Sensitivity)	1 (2 V or 1 V RMS Input Sensitivity)	None	None	None	None	None	None
AM/FM Ports (Motorola Antenna Connector)	1	1	None	None	None	None	None	None
Supported Sources	AM/FM with RDS Digital HD Radio (North America only) DAB+ (Europe only) / BLUETOOTH® / USB audio / iPhone / iPod / AUX x2 / SiriusXM-Ready® (U.S. and CA only, requires subscription and SiriusXM® Connect vehicle tuner)	Digital AM/FM with RDS / DAB+ (Europe only) / BLUETOOTH® / USB audio / iPhone / iPod / AUX	Derived from host source unit	Derived from host source unit	N/A	Derived from host source unit	Derived from host source unit	BLUETOOTH®
USB 2.0 Ports	2 USB1: High-speed connection for use with iPhone®/iPod® (MFi Certified) or USB storage device (1 A charging output) USB2: Full-speed USB storage device connection (500 mA charging output)	1 USB storage device (1 A charging output)	1 (Software update only)	1 (Software update only)	None	None	None	None
BLUETOOTH® Wireless Technology	Yes	Yes	No	No	No	Yes	No	Yes
SiriusXM-Ready	Yes	No	No	No	No	No	No	No
DAB+ Ready	Yes	Yes	No	No	No	No	No	No
NMEA 2000® LEN	1 (50 mA)	1 (50 mA)	4 (200 mA)	1 (50 mA)	2 (100 mA)			N/A
MediaMaster® App via BLUETOOTH	Yes	Yes	No	No	No	No	No	No
Control Surface Dust/Water Rating (when properly installed)	MM105: IP67 MM105-HR: IP66	IP67	IP66		IPX7	IP68	IP67	Controller: IP67 Receiver: IPX7
Warranty	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years

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JL Audio Amplifiers

	MVI	MHD	XDM	MX	AP AMPLIFIERS
					
Channels	Monoblock / 2 / 4 / 5 / 6 / 8	Monoblock / 4 / 5	Monoblock / 2 / 3 / 4 / 5 / 6 / 8	Monoblock / 3 / 4	Monoblock / 4 / 6
Physical Dimensions (Height)	2.05" (52 mm)	1.93" (49 mm)	2.05" (52 mm)	1.77" (45 mm)	1,85" (47mm)
Physical Dimensions (Width)	Monoblock (600 W) / 2 / 4-channel: 11.20" (285 mm) Monoblock (1000 W) / 5 (700 W / 1000 W) / 6 / 8-channel: 13.96" (355 mm)	10.74" (273 mm)	Monoblock (300 W) / 2-channel: 6.85" (174 mm) Monoblock (600 W) / 3 / 4-channel: 8.52" (216 mm) 5 (700 W) / 6-channel: 10.23" (260 mm) Monoblock (1000 W) / 5 (1000 W) / 8-Channel: 14.73" (374 mm)	Monoblock (300 W) / 4-channel (280 W): 8.66" (220 mm) Monoblock (500 W) / 3 / 4-channel (500 W): 9.33" (237 mm)	Monoblock 10.43" (265mm) 4-channel 10,43" (265 mm) 6-channel 11,81" (300 mm) 4-channel BT 7,28" (185 mm)
Physical Dimensions (Depth)	6.93" (176 mm)	7.85" (199 mm)	7.09" (180 mm)	Monoblock (300 W) / 4-channel (280 W): 3.09" (78.5 mm) Monoblock (500 W) / 3 / 4-channel (500 W): 4.50" (115 mm)	Monoblock / 4-channel /4-channel BT 4,90" (125 mm) 6-channel 5,90" (150 mm)
Rated Continuous (RMS) Power (14.4 V input @ 2 Ohm < 1% THD)	Monoblock (600 W): 600 W x 1 Monoblock (1000 W): 1000 W x 1 2-channel: 300 W x 2 4-channel: 100 W x 4 5-channel (700 W): Main: 100 W x 4 / Sub: 180 W x 1 5-channel (1000 W): Main: 100 W x 4 / Sub: 600 W x 1 6-channel: 100 W x 6 8-channel: 100 W x 8	Monoblock: 750 W x 1 4-channel: 150 W x 4 / 300 W x 2 (Bridged) 5-channel: Main: 75 W x 4 / Sub: 500 x 1	Monoblock (300 W): 300 W x 1 Monoblock (600 W): 600 W x 1 Monoblock (1000 W): 1000 W x 1 2-channel: 100 W RMS x 2 3-channel: Main: 100 W x 2 / Sub: 300 W x 1 4-channel: 100 W RMS x 4 5-channel (700 W): Main: 100 W x 4 / Sub: 300 W x 1 5-channel (1000 W): Main: 100 W x 4 / Sub: 600 W x 1 6-channel: 100 W x 6 8-channel: 100 W x 8	Monoblock (300 W): 300 W x 1 Monoblock (500 W): 500 W x 1 3-channel: Main: 100 W x 2 / Sub: 400 W x 1 4-channel (280 W): 70 W x 4 4-channel (500 W): 125 W x 4	Monoblock 300 watts x 1 4-channel 75 watts x 4 6-channel Channels 1—4: 75 watts x 4 Channels 5—6: 150 watts x 2 4-channel BT 50 watts x 4
Rated Continuous (RMS) Power (28.8 V input @ 2 Ohm < 1% THD)		4-channel (24 V): 150 W x 4 / 300 W x 2 (Bridged) 5-channel (24 V): Main: 75 W x 4 / Sub: 500 x 1	6-channel (24 V): 100 W x 6 8-channel (24 V): 100 W x 8		Monoblock: 350 W x 1 4 Channel: 75 W x 4 6-Channel: Channels 1-4: 75 W x 4; Channels 5-6: 150 W x 2
S/N Ratio, referred to highest rated power: Analog Inputs (A-weighted, 20 Hz - 20 kHz noise bandwidth)	Monoblock (600 W): 90 dB Monoblock (1000 W): 87 dB 2 / 4 / 6 / 8-channel: 99 dB 5-channel (700 W / 1000 W): 99 dB	Monoblock: >110 dB below rated power 4-channel: >110 dB 5-channel: >108.5 dB below rated power	Monoblock (300 W): >100 dB Monoblock (600 W): >87 dB Monoblock (1000 W): >83 dB 2 / 4 / 6-channel: >104 dB 3 / 5-channel: >104 dB	Monoblock (300 W): >85 dB Monoblock (500 W): >97 dB 4-channel (280 W): >89.5 dB 4-channel (500 W): >88 dB 3-channel: >88 dB	>70 dB
Frequency Response (+0, -1dB)	Monoblock (600 W / 1000 W): 12 Hz - 500 Hz 2 / 4 / 6-channel: 12 Hz - 24 kHz 8-channel: 12 Hz - 21 kHz 5-channel (700 W / 1000 W), Main Channels: 12 Hz - 24 kHz 5-channel (700 W / 1000 W), Subwoofer Channel: 12 Hz - 1 kHz	Monoblock: 6 Hz - 8 kHz 4-channel: 6 Hz - 30 kHz 5-channel, Main Channels: 12 Hz - 28 kHz 5-channel, Subwoofer Channel: 12 Hz - 10 kHz	Monoblock (300 W): 10 Hz - 1 kHz Monoblock (600 W / 1000 W): 7 Hz - 500 Hz 2 / 4 / 6-channel: 12 Hz - 22 kHz 3 / 5-channel (700 W / 1000 W), Main Channels: 12 Hz - 22 kHz 3 / 5-channel (700 W / 1000 W), Subwoofer Channel: 10 Hz - 1 kHz	Monoblock (300 W) / 3 / 4-channel (280 W / 500 W): 20 Hz - 20 kHz Monoblock (500 W): 20 Hz - 12 kHz	Monoblock 10 Hz–500 Hz 4-channel 20 Hz–20 kHz 6-channel Channels 1—4: 20 Hz–20 kHz 4-channel BT 20 Hz–20 kHz
Input Voltage Range @ RCA Inputs	Monoblock (600 W / 1000 W): 250 mV - 8 V RMS 2 / 4 / 6 / 8-channel: 250 mV - 16 V RMS	Switchable from 200 mV - 2 V RMS (Low) to 800 mV - 8 V RMS (High)	Monoblock (300 W / 600 W / 1000 W) / 2 / 3 / 4-channel: 200 mV - 4 V RMS	Monoblock (300 W): Switchable from 250 mV - 4 V RMS (Low) to 580 mV - 14 V RMS (High) Monoblock (500 W) / 4-channel (280 W / 500 W): Switchable from 250 mV - 4 V RMS (Low) to 750 mV - 15 V RMS (High)	Switchable from 200 mV-2 V RMS (Low) to 800 mV-8 V RMS (High)
Warranty	2 years	2 years	2 year	2 year	3 year

MFD Chartplotters

	GPSMAP 9027	GPSMAP 9024	GPSMAP 9022	GPSMAP 9019
				
Display size (diagonal)	27"	24"	22"	19"
Display type and resolution (pixels)	4k - 3840 x 2160	4k - 3840 x 2160	4k - 3840 x 2160	4k - 3840 x 2160
Touch- or keyed panel	Multitouch	Multitouch	Multitouch	Multitouch
GPS receiver	10 Hz GPS/GLONASS, external	10 Hz GPS/GLONASS, external	10 Hz GPS/GLONASS, external	10 Hz GPS/GLONASS, external
Standard GPS antenna	External	External	External	External
Number of waypoints	5,000	5,000	5,000	5,000
Number of routes	100	100	100	100
J1939 Support	Yes	Yes	Yes	Yes
Garmin SmartMode™	Yes	Yes	Yes	Yes
Digital Switching support	Yes	Yes	Yes	Yes
NMEA 2000 compatible	Yes	Yes	Yes	Yes
NMEA 0183 compatible	Yes	Yes	Yes	Yes
Garmin Marine Network compatible	Garmin BlueNet™ 30 gateway required	Garmin BlueNet™ 30 gateway required	Garmin BlueNet™ 30 gateway required	Garmin BlueNet™ 30 gateway required
Preloaded map	Worldwide Basemap	Worldwide Basemap	Worldwide Basemap	Worldwide Basemap
Garmin Navionics+/Vision+ Compatible	Yes	Yes	Yes	Yes
Auto Guidance+	Compatible	Compatible	Compatible	Compatible
ActiveCaptain™ support	Yes	Yes	Yes	Yes
Sailing Features	Yes	Yes	Yes	Yes
Wi-Fi® and ANT™ wireless connectivity	Yes, built-in	Yes, built-in	Yes, built-in	Yes, built-in
GRID™ 20 (Garmin Remote Input Device) compatible	Yes	Yes	Yes	Yes
FLIR® and Axis® IP camera support	Yes	Yes	Yes	Yes
FUSION-Link™ support	Yes	Yes	Yes	Yes
Video input	1 BNC composite 2 HDMI (HDCP compliant)	1 BNC composite 2 HDMI (HDCP compliant)	1 BNC composite 2 HDMI (HDCP compliant)	1 BNC composite 2 HDMI (HDCP compliant)
Video output	1 HDMI	1 HDMI	1 HDMI	1 HDMI
AIS and DSC support	Yes	Yes	Yes	Yes
Sonar module support	Yes	Yes	Yes	Yes
Supported frequency (sonar)	Dependent on optional sonar module	Dependent on optional sonar module	Dependent on optional sonar module	Dependent on optional sonar module
Transmit power	Dependent on optional sonar module	Dependent on optional sonar module	Dependent on optional sonar module	Dependent on optional sonar module
Panoptix™ support	Yes	Yes	Yes	Yes
Data card slots	2 SD™ cards	2 SD™ cards	2 SD™ cards	2 SD™ cards
Water rating	IPX7	IPX7	IPX7	IPX7
Mounting options	Flat or Flush	Flat or Flush	Flat or Flush	Flat or Flush
Power supply	10-35 V	10-35 V	10-35 V	10-35 V
Typical current draw at 12 Vdc:	7.2 A	6.5 A	5.2 A	4.6 A
Connections	Built-in wireless connectivity NMEA 2000: 1 port NMEA 0183: 4 in and 2 out Garmin BlueNet network Ports: 4 Garmin Marine network: 0 ports USB: 2 ports (USB-C) Video in: 1 BNC composite & 2 HDMI (HDCP compliant), Video out: 1 HDMI J1939: 1 port	Built-in wireless connectivity NMEA 2000: 1 port NMEA 0183: 4 in and 2 out Garmin BlueNet network Ports: 4 Garmin Marine network: 0 ports USB: 2 ports (USB-C) Video in: 1 BNC composite & 2 HDMI (HDCP compliant), Video out: 1 HDMI J1939: 1 port	Built-in wireless connectivity NMEA 2000: 1 port NMEA 0183: 4 in and 2 out Garmin BlueNet network Ports: 4 Garmin Marine network: 0 ports USB: 2 ports (USB-C) Video in: 1 BNC composite & 2 HDMI (HDCP compliant), Video out: 1 HDMI J1939: 1 port	Built-in wireless connectivity NMEA 2000: 1 port NMEA 0183: 4 in and 2 out Garmin BlueNet network Ports: 4 Garmin Marine network: 0 ports USB: 2 ports (USB-C) Video in: 1 BNC composite & 2 HDMI (HDCP compliant), Video out: 1 HDMI J1939: 1 port

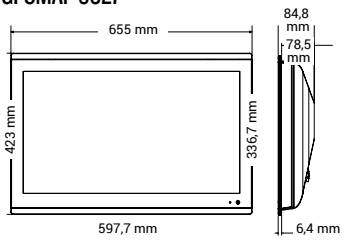
Chartplotters and Combos

	GPSMAP 8410	GPSMAP 8410xsv	GPSMAP 8412	GPSMAP 8412xsv	GPSMAP 8416	GPSMAP 8416xsv
						
Display size (diagonal)	10"	10"	12"	12"	16"	16"
Display type and resolution (pixels)	WUXGA - 1920 x 1200	WUXGA - 1920 x 1200	FHD - 1920 x 1080	FHD - 1920 x 1080	FHD - 1920 x 1080	FHD - 1920 x 1080
Touch- or keyed panel	Multitouch	Multitouch	Multitouch	Multitouch	Multitouch	Multitouch
GPS receiver	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo
Standard GPS antenna	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)
Number of waypoints	5000	5000	5000	5000	5000	5000
Number of routes	100	100	100	100	100	100
J1939 Support	Yes	Yes	Yes	Yes	Yes	Yes
NMEA 2000 compatible	Yes	Yes	Yes	Yes	Yes	Yes
NMEA 0183 compatible	Yes	Yes	Yes	Yes	Yes	Yes
Garmin Marine Network compatible	Yes	Yes	Yes	Yes	Yes	Yes
Preloaded map	Worldwide Basemap	Worldwide Basemap	Worldwide Basemap	Worldwide Basemap	Worldwide Basemap	Worldwide Basemap
Garmin Navionics+/Vision+ Compatible	Yes	Yes	Yes	Yes	Yes	Yes
Auto Guidance+	Yes	Yes	Yes	Yes	Yes	Yes
ActiveCaptain™ support	Yes	Yes	Yes	Yes	Yes	Yes
SailAssist	Yes	Yes	Yes	Yes	Yes	Yes
Wi-Fi® and ANT™ wireless connectivity	Yes	Yes	Yes	Yes	Yes	Yes
GRID™ 20 (Garmin Remote Input Device) compatible	Yes	Yes	Yes	Yes	Yes	Yes
Wireless remote compatible	Yes	Yes	Yes	Yes	Yes	Yes
FLIR® camera support	Yes	Yes	Yes	Yes	Yes	Yes
FUSION-Link™ support	Yes	Yes	Yes	Yes	Yes	Yes
Video input	1 HDMI	1 HDMI	1 HDMI	1 HDMI	1 HDMI	1 HDMI
Video output	1 HDMI	1 HDMI	1 HDMI	1 HDMI	1 HDMI	1 HDMI
AIS and DSC support	Yes	Yes	Yes	Yes	Yes	Yes
Sonar module support	Yes	Yes	Yes	Yes	Yes	Yes
Supported sonar frequencies		40kHz-250kHz CHIRP, 260/455/800/1200kHz CHIRP scanning (ClearVu and SideVu)		40kHz-250kHz CHIRP, 260/455/800/1200kHz CHIRP scanning (ClearVu and SideVu)		40kHz-250kHz CHIRP, 260/455/800/1200kHz CHIRP scanning (ClearVu and SideVu)
Transmit power		1 kW traditional, 1 kW CHIRP		1 kW traditional, 1 kW CHIRP		1 kW traditional, 1 kW CHIRP
Panoptix™ support	Yes	Yes	Yes	Yes	Yes	Yes
Quickdraw Contours	Yes	Yes	Yes	Yes	Yes	Yes
Data card slots	2 micro SD	2 micro SD	2 micro SD	2 micro SD	2 micro SD	2 micro SD
Water rating	IPX 7	IPX 7	IPX 7	IPX 7	IPX 7	IPX 7
Mounting options	Bail, Flush or Flat	Bail, Flush or Flat	Bail, Flush or Flat	Bail, Flush or Flat	Bail, Flush or Flat	Bail, Flush or Flat
Power supply	10-32 V	10-32 V	10-32 V	10-32 V	10-32 V	10-32 V
Typical current draw at 12 Vdc:	2.0 A	2.7 A	2.4 A	3.1 A	3.5 A	4.2 A
Connections	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB

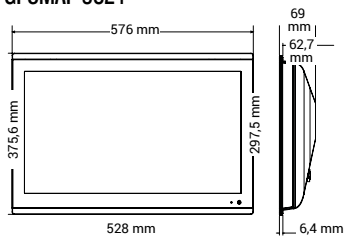
Combos

	GPSMAP 1222xsv/1222 & GPSMAP 1022xsv/1022	GPSMAP 1623xsv/1623 & GPSMAP 1523xsv Ultra Wide & GPSMAP 1223xsv/1223 & GPSMAP 923xsv/923 & GPSMAP 723xsv/723	ECHOMAP Ultra2 102sc / 122sv / 162 sv	ECHOMAP UHD2 62sv/72sv/92sv	ECHOMAP UHD2 52cv & ECHOMAP UHD2 72cv	ECHOMAP Plus 42cv
						
Display size (diagonal)	12" (1222xsv/1222) 10" (1022xsv/1022)	16" (1623xsv/1623) "15" (1523xsv Ultra Wide) 12" (1223xsv/1223) 9" (923xsv/923) 7" (723xsv/723)	10" (102sv) 12" (122sv) 16" (162sv)	6" (62sv) 7" (72sv) 9" (92sv)	5" amd 7"	4,3" (42cv)
Display type and resolution (pixels)	WXGA - 1280 x 800 (1222xsv/1222) WSVGA - 1024 x 600 (1022xsv/1022)	FHD - 1920 x 1080 (1623xsv/1623) FHD - 1920x 720 (1523xsv Ultra Wide) WXGA - 1280 x 800 (1223xsv/1223) WXGA - 1280 x 720 (923xsv/923) WSVGA - 1014 x 600 (723xsv/723)	WXGA, IPS 1280x800	WXGA 6"/7" - 800x480 9"- 1024 x 600	WVGA - 800 x 480	QVGA - 272 x 480 (42cv)
Touch- or keyed panel	Keyed	Multitouch	Keyed Assist Multotouch	Keyed Assist Multotouch	Keyed	Keyed
GPS receiver	10 Hz GPS/GLONASS, internal	10 Hz GPS/GLONASS, internal	10 KHZ, Dual Band, Internal	10 Hz GPS/GLONASS, internal	5 Hz GPS/GLONASS, internal	5 Hz GPS/GLONASS, internal
Standard GPS antenna	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)
Number of waypoints	5000	5,000	5,000	5000	5,000	5000
Number of routes	100	100	100	100	100	100
NMEA 2000 compatible	Yes	Yes	Yes	Yes	No	No
NMEA 0183 compatible	Yes	Yes	Yes	No	No	Yes
Garmin Marine Network compatible	Yes	Yes	Yes, with other ECHOMAP UHD2 sv models and ECHOMAP Ultra / Ultra 2 models only	Yes, with other ECHOMAP UHD2 sv models and ECHOMAP Ultra / Ultra 2 models only	Yes, wireless between other UHD2 models	No
OneHelm	No	Yes	Yes	No	No	
Wireless Networking	No	No	Yes	Yes	Yes	
Preloaded map	Worldwide Basemap	No	Worldwide Basemap	Worldwide Basemap	No	Worldwide Basemap
Garmin Navionics+/Vision+ Compatible	Yes	Yes	Yes	Yes	Yes	No
Auto Guidance+	Yes	Yes	Yes	Yes	Yes	No
ActiveCaptain™ support	Yes	Yes	Yes	Yes	Yes	No
SailAssist	Yes	Yes	Yes	Yes	Yes	No
Wi-Fi® wireless connectivity	Yes	Yes	Yes	Yes	Yes	No
ANT™ wireless connectivity	Yes	Yes	Yes	Yes	Yes	No
GRID™ 20 (Garmin Remote Input Device) compatible	Yes	Yes	No	No	No	No
Wireless remote compatible	Yes	Yes	No	No	No	No
FLIR® camera support	Yes	Yes	No	No	No	No
FUSION-Link™ support	Yes	Yes	Yes	Yes	No	No
Video input	1 BNC	1 BNC Video Output: 1 HDMI 12" and 16"	No	No	No	No
AIS and DSC support	Yes	Yes	Yes	Yes	No	Yes
Traditional HD ID 77/200	Yes (xsv)	Yes (xsv)	Yes	Yes	Yes	Yes
Traditional HD ID 50/200	Yes (xsv)	Yes (xsv)	Yes	Yes	Yes	Yes
Traditional CHIRP	Yes (xsv)	Yes (xsv)	Yes	Yes	Yes	Yes
CHIRP ClearVü	Yes (xsv)	Yes (xsv)	Yes	Yes	Yes	Yes
CHIRP SIdeVü	Yes (xsv)	Yes (xsv)	Yes	Yes	No	No
Dual Channel CHIRP	No	No	No	No	No	No
Ultra High-Definition scanning sonar	No	Yes	Yes	Yes	Yes	No
Optional sonar support	Yes	Yes	Yes	No	No	No
Internal Sonar Sharing	Yes (xsv)	Yes (xsv)	Yes, with other ECHOMAP UHD2 sv models and ECHOMAP Ultra / Ultra 2 models only	Yes, wireless with another UHD2 chartplotter or via the Garmin Marine Network	Yes, wireless with another UHD2 chartplotter	No
Transmit power	1 kW traditional, 1 kW CHIRP (xsv)	1 kW traditional, 1 kW CHIRP (xsv)	600 W	Up to 500 W (RMS)	Up to 500 W (RMS)	Up to 500 W (RMS)
Panoptix™ support	Yes	Yes	Yes	Yes	No	No
Preloaded Quickdraw Contours software	Yes	Yes	Yes	Yes	Yes	Yes
Data card slots	2 SD™ cards	2 microSD™ cards	2 MicroSD™ cards	1 MicroSD™ card	1 microSD™ card	1 MicroSD™ card
Water rating	IPX 7	IPX7	IPX7	IPX 7	IPX7	IPX 7
Mounting options	Bail or Flush	Bail, Flush or Flat	Bail or Flush	Bail or Flush	Bail or Flush	Bail or Flush
Power supply	10-32 V	10-32 V	10-20 V	10-20 V	10-20 V	10-20 V
Typical current draw at 12 Vdc:	2.5 A	3.61 A/2.9 A (16") 2.2 A (12") 1.8 A (9") 1.5 A (7")	2.2 A (102sv) 2.5 A (122sv)	1.52 A	1.52 A	1.5 A
Connections	Built-in wireless connectivity, NMEA 2000: 1 port, NMEA 0183: 1 port, Marine Network: 2 ports, Video in:1 BNC	Built-in wireless connectivity USB: 1 port, NMEA 2000: 1 port, NMEA 0183: 1 port Marine Network: 2 ports (16" and 12") 1 port (9" and 7") Video in: 1 BNC J1939 (16" and 12")	NMEA 2000: 1 port, NMEA 0183: 1 in and 1 out Marine Network: 2 ports, for Internal Sonar Sharing and Panoptix	Built-in wireless connectivity, NMEA 2000: 1 port, Marine Network: 1 port, for Internal Sonar Sharing and Panoptix	N/A	NMEA 0183: 1 in and 1 out

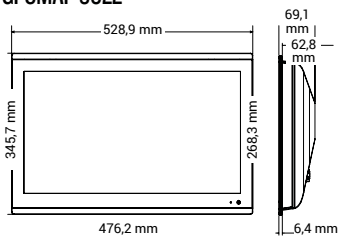
GPSMAP 9027



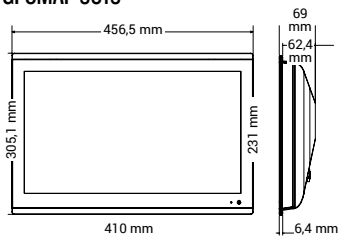
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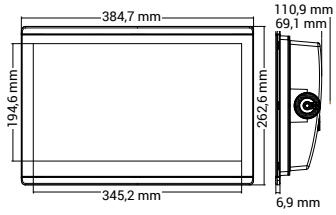
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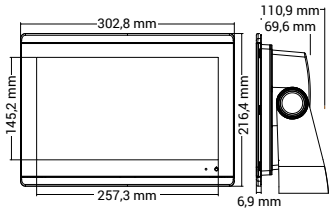
GPSMAP 9019



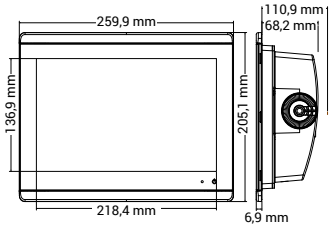
GPSMAP 8416/8416XSV



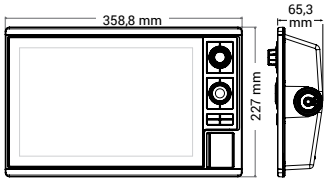
GPSMAP 8412/8412XSV



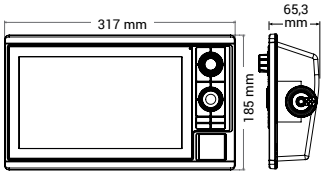
GPSMAP 8410/8410XSV



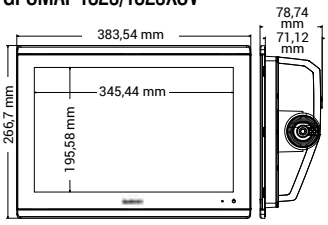
GPSMAP 1222 SERIES



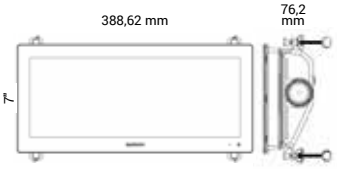
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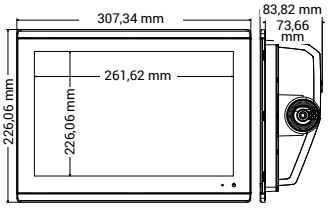
GPSMAP 1623/1623XSV



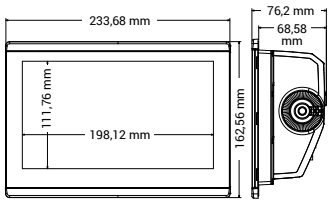
GPSMAP 15X3 ULTRAWIDE



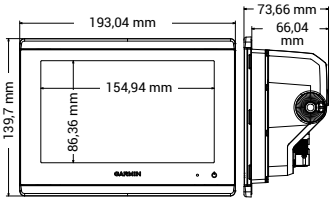
GPSMAP 1223/1223XSV



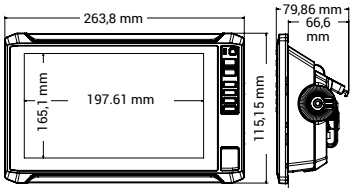
GPSMAP 923/923XSV



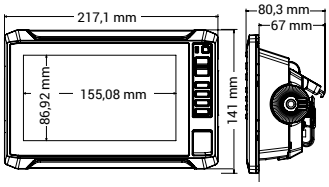
GPSMAP 723/723XSV



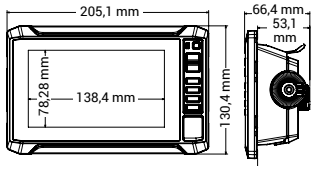
ECHOMAP UHD2 92SV



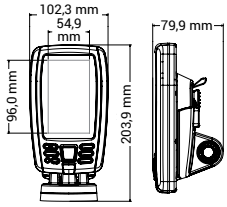
ECHOMAP UHD2 72SV



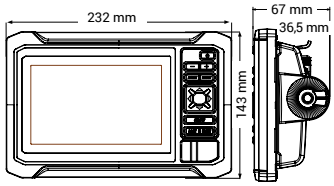
ECHOMAP UHD2 62SV



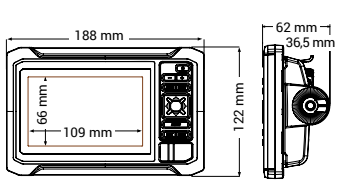
ECHOMAP PLUS 42CV



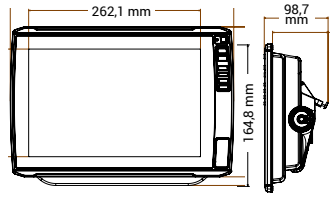
ECHOMAP UHD2 72CV



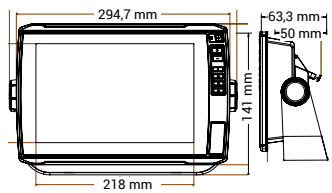
ECHOMAP UH2D 52CV



ECHOMAP ULTRA 2 122SV



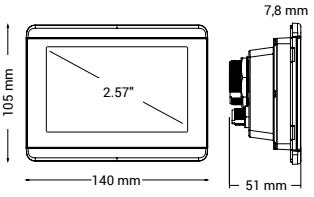
ECHOMAP ULTRA 2 102SV



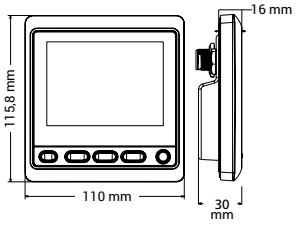
Instruments

	GHC 50 Autopilot Control	GMI 20	GNX Wind, GNX 20 & GNX 21	GNX 120	GNX 130
					
Bonded display	Yes	Yes	Yes	Yes	Yes
Display type	Color, QVGA	Color, QVGA	21-Inverted LCD, monochrome 20-Standard LCD, monochrome	Inverted LCD, monochrome	Inverted LCD, monochrome
Physical size (WxH)	5.5" x 4.1" x 2.0" (14.0 x 10.5 x 5.1 cm)	4.33" x 4.53" x 1.18" (110 mm x 115 mm x 30 mm)	110 x 115 x 30 mm (4.33" x 4.53" x 1.18")	180mm x 115mm (7.11" x 4.54")	248mm x 153mm (9.80" x 6.04")
Weight	247 g	247 g	230 g	380 g	820 g
Digit height	1.93" / 49 mm	1.93" / 49 mm	35mm \ 1.43" (GNX20/21)	51mm \ 2.0"	72mm \ 2.8"
LCD size (diagonal)	5"	4.0" / 102 mm	102mm \ 4.0"	159mm \ 6.3"	236mm \ 9.3"
LCD % of total size	39%	39%	40%	53%	53%
Number of big digits	3	3	3	4	4
Functions per page	1 to 4	1 to 4	1 to 3	1 to 3	1 to 3
Total data fields	50+	50+	50+	50+	50+
Background colors	RGB	RGB	RGB	RGB	RGB
Sunlight visible	Yes	Yes	Yes	Yes	Yes
Display update rate	1 Hz	1 Hz	Up to 8Hz	Up to 8Hz	Up to 8Hz
Operating temp	5°F to 158°F / -15°C to 70°C	5°F to 158°F / -15°C to 70°C	-15°C to 70°C \ 5°F to 158°F	-15°C to 70°C \ 5°F to 158°F	-15°C to 70°C \ 5°F to 158°F
Power consumption	3 W (Max light)	3 W (Max light)	350mW (no backlight) 450mW (no backlight)	360mW (no backlight) 400mW (no backlight)	360mW (no backlight) 400mW (no backlight)
Voltage range	9-16 V (from NMEA 2000)	9-16 V (from NMEA 2000)	9-16 V (from NMEA 2000)	9-16 V (from NMEA 2000)	9-16 V (from NMEA 2000)

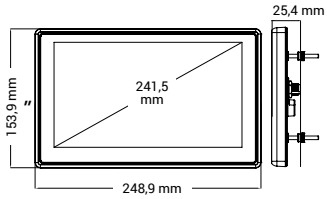
GHC 50



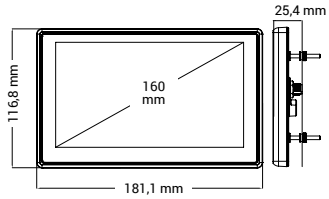
GMI 20 & GNX 20/21/WIND



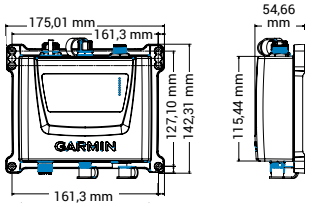
GNX 130



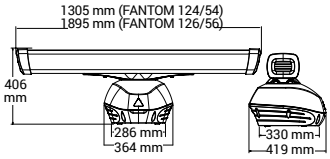
GNX 120



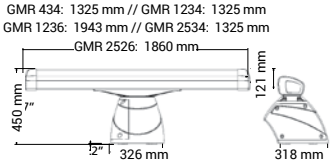
AIS 800



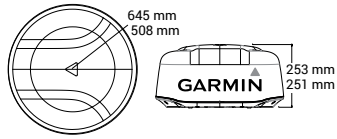
GMR FANTOM SERIES



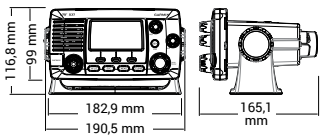
GMR XHD3 SERIES



GMR DOME SERIES



VHF SERIES



AIS and VHF

	AIS 800	CORTEX M1	VHF 115i	VHF 215i	VHF 215i AIS	CORTEX V1	VHF 315i
							
Display size, diagonal			2.5"	3.2"	3.2"	4" Color	2" (GHS 11i)
Adjustable backlighting			Yes	Yes	Yes	Yes	Yes (GHS 11i)
Class D DSC with Distress and Position Polling			Yes	Yes	Yes	Yes	Yes
Transmitter power output	5W / 2W	5 W	25W / 1W	25W / 1W	25W / 1W	25 W / 1 W	25W / 1W
Dedicated Channel 16 button			Yes	Yes	Yes	Yes	Yes (GHS 11i)
ATIS compatible			Yes	Yes	Yes	Yes	Yes
NMEA 0183 interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NMEA 2000 interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supports GHS 11i		Yes (Cortex H1 & H1P)		Yes	Yes	Yes (Cortex H1 & H1P)	Yes, up to 3, 1 included
Intercom (requires GHS 11i)				Yes	Yes		Yes
Hailer/Foghorn compatible		Yes		Yes	Yes	Yes	Yes
Internal GPS receiver	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internal GPS antenna	Yes		Yes	Yes	Yes		
External GPS options	Antenna	Antenna	Antenna NMEA 2000 NMEA 0183	Antenna NMEA 2000 NMEA 0183	Antenna NMEA 2000 NMEA 0183	Antenna	Antenna NMEA 2000 NMEA 0183
AIS receiver	Yes	Yes			Yes	Yes	
AIS transponder	Class B/SO	Class B SOTDMA				Class B SOTDMA	
Remote Monitoring		Yes				Yes	
Integral VHF antenna splitter	Yes	Yes				Yes	

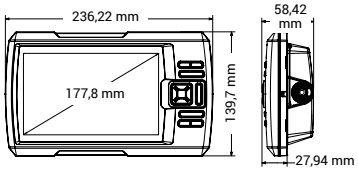
Radars

	GMR Fantom 254/256	GMR Fantom 124/126	GMR 56 / 54	GMR 2536/1236/436 xHD3 GMR 2534/1234/434 xHD3	GMR Fantom 24x/18x	GMR 24 xHD3/18 xHD3	GMR 18HD3
							
Transmit Power	120W	120W	120W	25 kW/12 kW/4 kW	50W	4 kW	4 kW
Dimensions (diameter)	1928 mm (Fantom 126) 1328 mm (Fantom 124)	1928 mm (Fantom 126) 1328 mm (Fantom 124)	1928 mm (Fantom 56) 1328 mm (Fantom 54)	1938 mm (GMR 2536) 1325 mm (GMR 2534)	645 mm (Fantom 24x) 508 mm (Fantom 18x)	645 mm (24 xHD3) 508 mm (18 xHD3)	508 mm
Rotation Speed (revolutions/min)	24 & 48	24 & 48	24 & 48	24 and 48	24/48/60	Up to 60 rpm, depending on settings	24
Weight	23,6 kg (Fantom 126) 21,3 (Fantom 124)	23,6 kg (Fantom 126) 21,3 (Fantom 124)	23,6 kg (Fantom 56) 21,3 (Fantom 54)	30.4 kg (GMR 2536) 28,4 (GMR 2534)	9,5 kg (Fantom 24x) 7,7 kg (Fantom 18x)	8.7 kg (24 xHD3) 7.0 kg (18 xHD3)	7.0 kg
Horizontal beamwidth	1.25° (Fantom 126) 1.8° (Fantom 124)	1.25° (Fantom 126) 1.8° (Fantom 124)	1.25° (Fantom 56) 1.8° (Fantom 54)	1.1° (GMR 2536) 1.8° (GMR2534)	3.7° (Fantom 24x) 5.2° (Fantom 18x)	3.7° (24 xHD3) 5.2° (18 xHD3)	5.2°
Vertical beamwidth	23°	23°	23°	23°	25°	25°	25°
Maximum/Minimum range	96 nm / 6 m (Fantom 126) 72NM / 6 m (Fantom 124)	96NM / 6 m (Fantom 126) 72NM / 6 m (Fantom 124)	96NM / 6 m (Fantom 56) 72NM / 6 m (Fantom 54)	96 nm/20 m (2526) 72 nautical miles/20 m (434/436)	48 nm/6 m	48 nautical miles/20 meters	36 nautical miles/20 meters
Waterproof according to standard	IPX6	IPX6	IPX6	IPX6	IPX7	IPX7	IPX7
Power supply	10-32 V	10-32 V	10-32 V	10-32 V	10-32 V	11 - 32V	11 - 32 V
Power consumption (typical)	80 W	80W	80W	70 W (25 kW), 70 W (12 kW), 55 W (4 kW)	18.1-24.4 W (dependent on range setting)	40 W	40 W
Power consumption (standby)	10 W	10W	10W	18 W	4 W	15 W	15 W
Max Wind Load	80kt	80kt	80kt	12/25kW: 100kt 4kW: 80 knot[1]			
Temperature range	-15 to 55C	-15 to 55C	-15 to 55C	-15 to 55C	-15 to 55C	-25 to 70C	-25 to 70C
Guard zone with alarm	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cable length	15 m	15 m	15 m	15 m	15 m	15 m	15 m
Polarization	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Trails	Heading-corrected, Adjustable	Heading-corrected, Adjustable	Heading-corrected, Adjustable	True	Heading-corrected, Adjustable	True	No
Dual Range	Yes	Yes	Yes	Yes	Yes	Yes	No

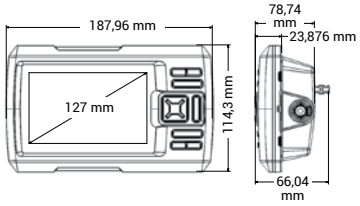
Fishfinders

	STRIKER Vivid 9sv	STRIKER Vivid 7cv/sv	STRIKER Vivid 5cv	STRIKER Vivid 4cv
				
Display Size (diagonal)	9.0"	7.0"	5.0"	4.0"
Display Resolution	800 x 480 WVGA	800 x 480 WVGA	800 x 480 WVGA	480 x 320 HVGA
Internal High-sensitivity GPS	Yes	Yes	Yes	Yes
Built-in Quickdraw	Yes	Yes	Yes	Yes
Built-in Wi-Fi®	Yes	Yes	No	No
CHIRP Traditional Sonar	Yes	Yes	Yes	Yes
Dual Frequency (50/200 kHz)	Yes	Yes	Yes	Yes
Dual Beam (77/200 kHz)	Yes	Yes	Yes	Yes
CHIRP ClearVü	Yes	Yes	Yes	Yes
CHIRP SideVü	Yes	No	No	No
Included Transducer	GT52HW-TM (High Wide CHIRP/ ClearVü/SideVü)	GT20-TM (CHIRP/ClearVü) or GT52HW-TM (High Wide CHIRP/ClearVü/SideVü)	GT20-TM (CHIRP/ClearVü)	GT20-TM (CHIRP/ClearVü)
Transmit Power - Included Transducer	250 W Trad 350 W ClearVü/SideVü	500 W Trad 500 W ClearVü	500 W Trad 500 W ClearVü	300 W Trad 300 W ClearVü
Frequencies Supported (kHz)	High-Wide CHIRP (150-240 kHz) ClearVü/SideVü (455/800 kHz)	CHIRP (77/200 kHz) ClearVü (455/800 kHz)	CHIRP (77/200 kHz) ClearVü (455/800 kHz)	CHIRP 77/200 kHz ClearVü (455/800 kHz)
Maximum Depth Capabilities with Included Transducer[1]	800 ft (traditional) 250 ft (ClearVü) 500 ft Left/Right (SideVü)	2,300 ft (traditional) 250 ft (ClearVü)	2,300 ft (traditional) 250 ft (ClearVü)	1,750 ft (traditional) 250 ft (ClearVü)
Waypoints	5,000	5,000	5,000	5,000
Audible Alarms	Yes	Yes	Yes	Yes
User Data Sharing Cable Compatible	Yes	Yes	Yes	Yes
Water Temperature Log/Graph	Yes	Yes	Yes	Yes
GPS Speed	Yes	Yes	Yes	Yes
Flasher	Yes	Yes	Yes	Yes

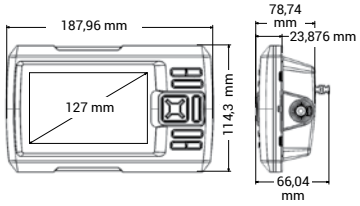
STRIKER VIVID 9SV



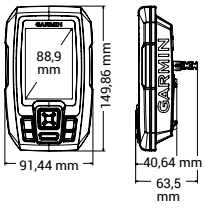
STRIKER VIVID 7CV/SV



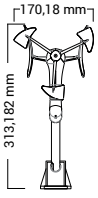
STRIKER VIVID 5CV



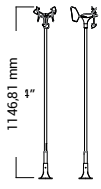
STRIKER VIVID 4CV



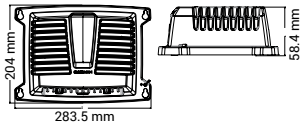
GWIND/GWIND WIRELESS 2



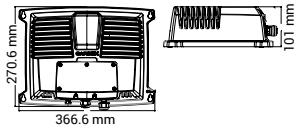
GWIND RACE



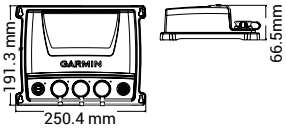
GSD 24



GSD 28



GCV 10 AND GSD 25



[1]Maximum depth capacity is dependent on water salinity, bottom type and other water conditions • Wi-Fi is a registered trademark of the Wi-Fi Alliance.

gWind

	gWind Transducer	gWind Race Transducer	gWind Wireless 2 Transducer	GND 10
				
Unit dimensions, WxHxD	610 x 345 mm	H=1180 mm	610 x 345 mm	170 x 90 x 50 mm
Weight	260 g	320 g	350 g	196 g
Cable length	25 m	25 m	N/A	NMEA 2000 (2m) Nexus network (5m)
Waterproof	IPX6	IPX6	IPX6	IPX6
Temp range	From -15°C to 70°C	From -15°C to 70°C	From -15°C to 70°C	From -15°C to 70°C
Voltage range	9-16V	9-16V	N/A	9-16V
Power usage	0.33W	0.33W	Solar powered	0.85W
Compass safe distance	N/A	N/A	N/A	0.1m
Accuracy angle	Better than ±1.5°	Better than ±1.5°	Better than ±1.5°	N/A
Speed	Better than ±3%	Better than ±3%	Better than ±3%	N/A
NMEA 2000 Load Equivalency Number (LEN)	N/A	N/A	N/A	4
Wireless connectivity	No	No	Yes	No

Sonar Modules

	GSD 24	GSD 25	GSD 28	GCV 10	GCV 20
					
Physical size (WxHxD)	275 x 82 x 204 mm	192 x 66 x 251 mm	10.7" × 14.4" × 4.0"	192 x 66 x 251 mm	192 x 66 x 251 mm
White line	Yes	Yes	Yes	No	No
Waterproof according to standard	IPX7	IPX7	IPX7	IPX7	IPX7
Ultrascroll	Yes	Yes	Yes	No	No
Compatible with Dual Frequency transducers	Yes	Yes	Yes	No	No
Autogain technology	Yes	Yes	Yes	Yes	Yes
Power supply	10-35 V	10-35 V	10-32 V	10-35 V	10-35 V
Power consumption	2-29 W	2-29 W	120 W	10.5 W	10.5W
Max. depth1	5000 ft	ClearVü: 750 ft SideVü: 500 ft Traditional: 5,000 ft	10,000 ft	ClearVü: 750 ft SideVü: 500 ft	ClearVü: 750 ft SideVü: 500 ft
Fish symbol ID	Yes	Yes	Yes	No	No
Frequency	Traditional: 50/200, 77/200, 83/200 kHz	Traditional: 50/200, 77/200, 83/200 kHz Single Channel CHIRP: 40-250 kHz Dual Channel CHIRP: 40-250 kHz SideVü/ClearVü CHIRP: 455/800 kHz CHIRP: 260/455 kHz	Dual Channel CHRIP: 25-250 kHz	SideVü/ClearVü CHIRP: 455/800 kHz CHIRP: 260/455 kHz	SideVü/ClearVü CHIRP: 455/800/1200 kHz
Max. transducer angle Dual Frequency	45/10°	45/10°	45/10°	n/a	n/a
Depth Controlled Gain	Yes	Yes	Yes	No	No
See Thru compatible	Yes	Yes	Yes	No	No
Output power	Up to 2 kW	Up to 1 kW	Up to 3 kW	500 W	500 W
Garmin Marine Network compatible	Yes	Yes	Yes (Garmin BlueNet™ Connector)	Yes	Yes

Cameras

	GC14 Marine Camera	GC200 Marine IP Camera	GC100 Marine Camera	GC245 Surface-Mount Camera	GC255 Flush-Mount Camera
					
Video Resolution	976(H) x 582(V)	Up to 1920 x 1080P[1]	720p	1920 x 1080 pixels	1920 x 1080 pixels
Low-light vision	Up to 10 Meters	Up to 30 Meters	Up to 3 Meters		
Water rating	IPX7	IPX7	IPX7	IPX7	IPX7
One-button startup			•		
Pair multiple camera		•	•	•	•
Connection to Chartplotter	Composite Video	Ethernet	Wi-Fi®	IP	IP
Hardwired Power	12V (9-18VDC)	12V and POE (9-18VDC or PoE)	12V (10-30VDC)	12V/24V	12V/24V
Compass Safe Distance	6 1/8" (155 mm)		4" (100 mm)		
Operating temperature	-10 to 50 (from 14 to 122)	-20 to 60 (from -4 to 140)	-20 to 60 (from -4 to 140)	-20°C to +60°C	-20°C to +60°C
Viewing angle, DxHxV(°)	95.0° x 69.0° x 52.0°	123° x 99° x 74°	183° x 160° x 90°	160°H/90°V	160°H/90°V
Weight	205 g	520 g	50 g	92 g	650 g
Unit dimensions	5.1 x 4.4 cm (2.0" x 1.7")	8.9 x 8.3 cm (3.5" x 3.25")	5.0 x 4.0 x 2.8 cm (2.0" x 1.6" x 1.1")	2.4" x 2.4" x 2.2" (6.1 x 6.1 x 5.1 cm)	3.2" x 3.2" x 3.3" (8.1 x 8.1 x 8.38cm)
Power consumption	80mA (IR Off), 170mA (IR On)	210mA (IR Off), 370mA (IR On)	10 W	4.5 W	4.5 W

[1]All current Garmin Charplotters can only support up to 1280x720P

Handhelds and Wearables

	quatix 8	GPSMAP 276Cx	GPS 73	GPSMAP 79s	inReach Mini2 Marine Bundle	GPSMAP 86i	GPSMAP 86s
							
Number of waypoints	1,000	10,000	1,000	2,000	500	10,000	10,000
Internal map memory	32 MB	8.0 GB	No	1.7 GB	No	16GB	16GB
Number of routes	30	250	50	250	20	250	250
Basemap, preprogrammed map	Yes	Worldwide basemap	No	Worldwide basemap	No	Worldwide basemap	Worldwide basemap
Additional map options	BlueChart g3	Bluechart g3, City Navigator, topo, topo 24k	No	BlueChart g3, City Navigator, Pro, Pro v2 and Prime outdoor maps	No	Bluechart g3, City Navigator, Topo maps- and Prime outdoor maps	Bluechart g3, City Navigator, Topo maps- and Prime outdoor maps
Battery life	Smartwatch: up to 16 days (7 days always-on) Battery-saver watch mode: up to 23 days GPS only: up to 47 hours (37 hours always-on) Max battery GPS: up to 81 hours Expedition GPS: up to 17 days	up to 16 hours (lithium-ion); up to 8 hours (AA batteries)	18+ hours on 2 AA batteries (not included)	19 hours (2 AA)	up to 90 hours at 10-minute tracking (default) up to 35 hours at 10-minute tracking with 1-second logging up to 24 days at 30-minute tracking power save mode up to 1 year when powered off	35 hours in 10-minutes tracking mode Up to 200 hours (Expedition mode)	Up to 40 hours (Standard mode) Up to 200 hours (Expedition mode)
Display size	35.56 mm (1.4") diameter	5" diagonal	2.6" diagonal	3" diagonal	1.3" diagonal	3" diagonal	3" diagonal
Display type	AMOLED	TFT (Transflective)	TFT (Transflective)	Transflective, 65K colour TFT	sunlight-readable, monochrome, transflective memory-in-pixel (MIP)	Transflective, 65K colour TFT	Transflective, 65K colour TFT
Area calculation	Yes	Yes	Yes	Yes	No	Yes	Yes
Display resolution pixels (HxW)	454 x 454 pixels	800 x 480	160 x 128	240 x 400	128 x 128	240 x 400	240 x 400
Standard GPS antenna	EXO™ antenna	Internal	Internal	Integral quad helix	Integral quad helix	Quad helix	Quad helix
Bluetooth®	BLUETOOTH® ANT+®, Wi-Fi®	Bluetooth / WiFi	No	No	Yes	Yes	Yes
TracBack function	Yes	Yes	Yes	Yes	No	Yes	Yes
Number of track points	10,000	20,000	10,000	10,000	10,000	10,000	10,000
Weight	8, 47mm: 73 g 8, 51 mm: 92 g	450 g (litium), 415 g (AA)	232,4 g	282 g	100 g	272 g	272 g
Alarm	Yes	Yes	Yes	Yes	No	Yes	Yes
Waterproof according to standard	10 ATM	IPX7	IPX7	IPX7	IPX7	IPX7	IPX7
Physical size in mm (HxWxD)	51 x 51 x 14.7 mm	191 x 94 x 43 mm	157 x 69 x 30 mm	174 x 67 x 42	51.7 x 99.0 x 26.1 mm	178 x 68 x 44 mm	178 x 68 x 44 mm
Separate Serial & USB interfaces	No	Yes	Yes	Yes	No	Yes	Yes
Storage of cartography	No	microSD memory card	No	microSD memory card	No	microSD memory card	microSD memory card
Backlit display	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Input for external antenna	No	Yes	No	Yes	No	No	No
WAAS/EGNOS compatible	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Integral electronic compass	Yes	Yes	No	Yes	No	Yes	Yes
Integral barometric altimeter	Yes	Yes	No	Yes	No	Yes	Yes
Automatic route calculation	No	Yes, with City Navigator	No	Yes, with City Navigator	No	Yes (with optional mapping for detailed roads)	Yes (with optional mapping for detailed roads)
Calendar for hunting/fishing times	No	Yes	Yes	Yes	No	Yes	Yes
Solar & lunar calendar	Yes	Yes	Yes	Yes	No	Yes	Yes
Area waypoints	Yes	Yes	Yes	Yes	No	Yes	Yes
Tidal information	Yes	Yes	No	Yes	No	Yes	Yes
Power supply (external)	No	8-36 V	8-36 V	8-36 V	Indluded bare wire cable: 10-30V Unit: 5 V Micro USB	Indluded bare wire cable: 10-30V Unit: 5 V Micro USB	Indluded bare wire cable: 10-30V Unit: 5 V Micro USB
Waypoint icons	No	Yes	Yes	Yes	No	Yes	Yes
NMEA compatible	No	Yes (NMEA 0183)	Yes (NMEA 0183)	Yes (NMEA 0183)	No	Yes (NMEA 0183)	Yes (NMEA 0183)
Camera	No	No	No	No	No	No	No
Picture viewer	No	No	No	Yes	No	Yes	Yes
Floats	No	Yes	Yes	Yes	No	Yes	Yes

Autopilot Compatibility

Steering Type	Vessel Size/Type and Overall Use	Recommended Core Pack	Drive Unit Type	Components Included in Core Pack	Required Components not Included in Core Pack
Hydraulic	Cruising applications only; for single engine outboard (150hp and below) vessels less than 25' long. Up to 150 cc	Compact Reactor 40 Hydrauilic Autopilot Starter Pack	1.0L Pump	Reactor 40 Compact ECU 1.0L Pump	• 3 or 5 ORB Male to 1/4" NPT female adapters • Hydraulic hose - machine-crimped or field replaceable fittings. Minimum 1000psi • Hydraulic T-connectors - varies by vessel • Hydraulic Shut-off valves - varies by vessel
Hydraulic	Cruising applications only; for single engine outboard (150hp and below) vessels less than 25' long. Up to 150 cc	Compact Reactor 40 Hydraulic Autopilot with GHC 50 Pack	1.0L Pump	Reactor 40 Compact ECU 1.0L Pump Shadow Drive	• 3 or 5 ORB Male to 1/4" NPT female adapters • Hydraulic hose - machine-crimped or field replaceable fittings. Minimum 1000psi • Hydraulic T-connectors - varies by vessel • Hydraulic Shut-off valves - varies by vessel
Hydraulic	Cruising applications only; for single engine outboard (150hp and below) vessels less than 25' long. Up to 150 cc	Compact Reactor™ 40 with Pump, GHC 50™ and Shadow Drive Technology Pack	1.0L Pump	Reactor 40 Compact ECU 1.0L Pump Shadow Drive GHC 50	• 3 or 5 ORB Male to 1/4" NPT female adapters • Hydraulic hose - machine-crimped or field replaceable fittings. Minimum 1000psi • Hydraulic T-connectors - varies by vessel • Hydraulic Shut-off valves - varies by vessel
Hydraulic	Single-cylinder applications. Up to 200 cc	Reactor 40 Hydraulic Autopilot	GHP 1.2L Pump	Reactor 40 ECU 10 Shadow Drive GHC 50	• 010-00705-64: GHP 1.2L Pump • 3 or 5 ORB Male to 1/4" NPT female adapters • Hydraulic hose - machine-crimped or field replaceable fittings. Minimum 1000psi • Hydraulic T-connectors - varies by vessel • Hydraulic Shut-off valves - varies by vessel
Hydraulic	Dual-cylinder applications. 200 - 300 cc	Reactor 40 Hydraulic Autopilot	GHP 2.0L Pump	Reactor 40 ECU 10 Shadow Drive With / Without GHC 50	• 010-00705-63: GHP 2.0L Pump • 3 or 5 ORB Male to 1/4" NPT female adapters • Hydraulic hose - machine-crimped or field replaceable fittings. Minimum 1000psi • Hydraulic T-connectors - varies by vessel • Hydraulic Shut-off valves - varies by vessel
Hydraulic	Premium, recommended option for most hydraulic steering installations, including Verado®, power assist, and total cylinder volumes 100 - 370 cc. Recommended for high use, rougher waters, high performance, and slow speed applications. Also recommended for Evinrude G2 Dynamic Power Steering systems.	Reactor™ 40 Hydraulic Core Pack with SmartPump™ v2	SmartPump v2	Reactor 40 SmartPump v2 Shadow Drive With / Without GHC 50	• 3 or 5 ORB Male to 1/4" NPT female adapters • Hydraulic hose - machine-crimped or field replaceable fittings. Minimum 1000psi • Hydraulic T-connectors - varies by vessel • Hydraulic Shut-off valves - varies by vessel
Mechanical Steering	Total vessel displacements up to 28,500 pounds, with very low backdrive force required	Reator 40 Mechanical/ Solenoid/Retrofit Core Pack	Class A Linear Actuator	Reactor 40 ECU 12 GHC 50	010-11572-00: Class A linear actuator; has rudder feedback included
Mechanical Steering	Total vessel displacements up to 48,400 pounds	Reator 40 Mechanical/ Solenoid/Retrofit Core Pack	Class B Compact Linear Actuator	Reactor 40 ECU 12 GHC 50	010-12029-00: Class B linear actuator; has rudder feedback included
Mechanical Steering	Total vessel displacements from 48,000 to 79,000 pounds	Reator 40 Mechanical/ Solenoid/Retrofit Core Pack	Class B Linear Actuator	Reactor 40 ECU 12 GHC 50	010-11573-00: Class B linear actuator; has rudder feedback included
Mechanical Steering	Sailboats with non-Garmin drive units	Reator 40 Mechanical/ Solenoid/Retrofit Core Pack	Third-party Drive Unit	Reactor 40 ECU 12 GHC 50	Third-party drive unit 010-11533-00: Actuator Motor Cable, 010-11829-00: GRF 10 Rudder sensor; or 010-11532-00 + third party rudder sensor.
Steer by Wire	SeaStar Optimus, ZF Pod Drive, Yanmar, Evinrude G2 Intelligent Piloting System (including iDock)	Reactor 40 Steer-by-wire Standard Core Pack		Reactor 40 GHC 50	
Steer by Wire	Yamaha Helm Master	Reactor 40 Steer-by-wire Core Pack for Yamaha Helm Master	Gateway Included	Reactor 40 Autopilot Gateway GHC 50	
Steer by Wire	Volvo IPS or Sterndrive (C3 or newer Volvo EVC Systems) Aquamatic Sterndrive DPI	Reactor 40 Steer-by-wire Core Pack for Volvo-Penta	Gateway Included	Reactor 40 Autopilot Gateway GHC 50	
Steer by Wire	Viking VIPER	Reactor 40 Steer-by-wire Core Pack for Viking Viper		Reactor 40 GHC 20	
Solenoid	Constant running hydraulic pump systems with solenoid autopilot control	Reator 40 Mechanical/ Solenoid/Retrofit Core Pack	Third-party Solenoid Required	Reactor 40 ECU 12 GHC 50	010-11533-10: Solenoid Cable 010-11829-00: GRF 10 rudder sensor or 010-11532-00 plus third-party rudder sensor
Cable Steer	Most cable steered vessels	Reator 40 Mechanical/ Solenoid/Retrofit Core Pack	Third-party 12VDC Brushed Motor Actuator Required	Reactor 40 ECU 12 GHC 50	010-11533-10: solenoid cable 010-11829-00: GRF 10 rudder sensor or 010-11532-00 plus third-party rudder sensor
Auxillary Gas Engine (Kicker)	Up to 25HP auxiliary gas engines from most major manufacturers	Reactor 40 Kicker	Steering Actuator Included	CCU ECU Steering Actuator Throttle Actuator Wireless Remote	

The Wireless Remote with gesture control is an optional accessory compatible with all Garmin autopilots listed; requires GHC50 or supported chartplotters.



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